ESTTA Tracking number:

ESTTA567446 10/28/2013

Filing date:

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE TRADEMARK TRIAL AND APPEAL BOARD

| Proceeding | 92054573 |
|---------------------------|--|
| Party | Plaintiff LayerZero Power Systems, Inc. |
| Correspondence Address | RAYMOND RUNDELLI CALFEE HALTER & GRISWOLD LLP 1405 EAST SIXTH STREET, THE CALFEE BUILDING CLEVELAND, OH 44114-1607 UNITED STATES rrundelli@calfee.com, jcastrovinci@calfee.com, ssmith@mccarter.com, jwhitney@mccarter.com |
| Submission | Plaintiff's Notice of Reliance |
| Filer's Name | Raymond Rundelli |
| Filer's e-mail | rrundelli@calfee.com, jwick@calfee.com |
| Signature | /Raymond Rundelli/ |
| Date | 10/28/2013 |
| Attachments | 02215885.PDF(36201 bytes) 02215888.PDF(491820 bytes) 02215892.PDF(263136 bytes) 02215895.PDF(170782 bytes) 02215896.PDF(3192122 bytes) 02215898.PDF(4311243 bytes) 02215900.PDF(4345397 bytes) 02215904.PDF(83889 bytes) 02215913.PDF(148186 bytes) |

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE TRADEMARK TRIAL AND APPEAL BOARD

| Issued on: July 19, 2011 | | |
|--------------------------------|--------|---------------------------|
| LAYERZERO POWER SYSTEMS, INC., | | |
| Petitioner, |) | Cancellation No. 92054573 |
| v. |)) | |
| |) | |
| ORTRONICS, INC., |) | |

Registrant.

In the Matter of Registration Nos.: 3,998,542 and 3,998,543

For the Marks: LAYER ZERO and LAYER 0

<u>PETITIONER'S THIRD NOTICE OF RELIANCE</u> (Confidential Information Redacted from Exhibit H)

Pursuant to Trademark Rule 2.120(j) and TBMP §704.10, Petitioner, LayerZero Power Systems, Inc. ("Petitioner" or "LayerZero"), by and through its attorneys, hereby gives notice that it will or may rely upon the following materials relevant to the issues in the above-captioned proceeding, copies of which are attached to this Notice.

- 1. True and accurate copies of Registrant's Responses and Objections to Petitioner's First Set of Interrogatories and each document made part of any answer thereto is attached hereto as Exhibit D.
- 2. True and accurate copies of Registrant's Responses and Objections to Petitioner's First Set of Requests for Admission and each exhibit thereto is attached hereto as Exhibit E.
- 3. A true and accurate copy of Registrant's Responses and Objections to Petitioner's Second

Set of Interrogatories is attached hereto as Exhibit F.

4. True and accurate copies of Registrant's Responses and Objections to Petitioner's Second

Set of Requests for Admission and each attached as a rider thereto is attached hereto as Exhibit

G.

5. True and accurate copies of Registrant's Supplemental and Amended Responses and

Objections to Petitioner's First Set of Interrogatories, any exhibit thereto, and each document

made part of any answer thereto is attached hereto as Exhibit H.

6. A true and accurate copy of Registrant's Supplemental and Amended Responses to

Petitioner's First Set of Requests for Admission is attached hereto as Exhibit I.

7. A true and accurate copy of Registrant's Supplemental and Amended Responses to

Petitioner's Second Set of Requests for Admission is attached hereto as Exhibit J.

Dated: October 28, 2013

Respectfully submitted,

s/Raymond Rundelli/

Raymond Rundelli (0030778)

rrundelli@calfee.com

Jennifer Wick (0074340)

iwick@calfee.com

CALFEE, HALTER & GRISWOLD LLP

The Calfee Building

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Cleveland, Ohio 44114-1607

(216) 622-8200

FAX (216) 241-0816

Attorneys for Petitioner LayerZero Power Systems,

Inc.

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CERTIFICATE OF SERVICE

The undersigned hereby certifies that on October 28, 2013, a copy of the foregoing was served on Registrant Ortronics, Inc. below via email to:

Mark D. Giarratana
Shawn Smith
McCarter & English LLP
185 Asylum Street, Cityplace 1
Hartford, CT 06103
mgiarratana@mccarter.com
shsmith@McCarter.com

s/Raymond Rundelli/

Raymond Rundelli rrundelli@calfee.com Jennifer Wick jwick@calfee.com The Calfee Building 1405 East Sixth Street Cleveland, Ohio 44114-1607

Phone: 216-622-8200 Fax: 216-241-0816

Attorneys for Petitioner

EXHIBIT D

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE TRADEMARK TRIAL AND APPEAL BOARD

| In the Matter of Registration Nos.: For the Marks: Date of Issue: | 3,998,542 and 3,998,543 LAYER ZERO and LAYER 0 July 19, 2011 | | | |
|---|--|----------------------------|--|--|
| LAYERZERO POWER SYSTEMS | , INC. |) | | |
| Petitioner, | | Cancellation No.: 92054573 | | |
| v. | | | | |
| ORTRONICS, INC., | | | | |
| Registrant, | · | | | |

REGISTRANT'S RESPONSES AND OBJECTIONS TO PETITIONER'S FIRST SET OF INTERROGATORIES

Pursuant to Rules 26 and 33 of the Federal Rules of Civil Procedure and 37 C.F.R. 2.120, Registrant Ortronics, Inc. ("Registrant") hereby provides its responses and objections to the First Set of Interrogatories (collectively, the "Requests") proffered by Petitioner LayerZero Power Systems, Inc. ("Petitioner") on March 20, 2012. Registrant continues its investigation into the subject matter underlying this action, and it submits these responses and objections based only on its present knowledge and belief. Registrant reserves its right to amend and/or supplement its responses and objections to the Requests consistent with further investigation and discovery.

GENERAL OBJECTIONS

1. Registrant objects to the "Instructions and Definitions" and these Requests to the extent that they purport to impose upon it any obligation beyond that required by Federal Rules of Civil Procedure and/or the Rules of Trademark Practice in the U.S. Patent and Trademark Office.

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- 2. Registrant objects to these Requests to the extent that they seek the identification or production of "all" information, or the like, on grounds that such a Request is unduly burdensome and overly broad.
- 3. Registrant objects to these Requests to the extent they seek information that is neither relevant to the subject matter of the pending action nor reasonably calculated to lead to the discovery of admissible evidence.
- 4. Registrant objects to these Requests to the extent they seek the discovery of information subject to the attorney-client privilege or work-product doctrine, or other applicable privileges. The inadvertent disclosure of any communication covered by such protections shall not be deemed a waiver thereof.
- 5. To the extent that Registrant responds to these Requests, such responses should not be construed as a representation or admission that the information provided in the response is relevant or admissible at trial.
- 6. Registrant objects to each and every Request to the extent that the response may be derived or ascertained from records or other documents that are in the possession or control of Petitioner or from documents that are readily available to Petitioner in this proceeding. To the extent the response to a Request can be ascertained or derived from documents or information in Petitioner's possession, custody or control, the development of that response by Petitioner is significantly more convenient and less burdensome than it is for Registrant.
- 7. Registrant objects to each Request, including the "Instructions and Definitions" incorporated therein, to the extent that they are vague, indefinite, ambiguous, overbroad, unduly burdensome, not reasonably calculated to lead to the discovery of admissible evidence,

unreasonably cumulative or duplicative, without temporal limitations, or seeks information that may be obtained from another source that is more convenient, less burdensome or less expensive.

- 8. Registrant objects to any and all Requests that seek information that Registrant is required to maintain in confidence pursuant to an agreement or understanding with any third-party or that otherwise are protected under contractual, constitutional, statutory, and/or common law rights of confidentiality or privacy.
- 9. Registrant objects to the extent that these Requests require Registrant to conduct anything other than a reasonable inquiry into the information requested, or to produce information not within Registrant's possession, custody, or control.
- 10. Registrant objects to the extent that any Request implies the existence of facts or circumstances not of record or that do not exist, and to the extent that any request assumes a legal conclusion. By responding, Registrant does not admit any factual or legal assumptions contained in any Request.
 - 11. Registrant objects to the extent that any Request calls for a legal conclusion.
- 12. Registrant objects to these Requests to the extent that they are compound and incorporate multiple Requests into a single Request.
- 13. Registrant objects to the definition of "Communication" on the grounds that it is vague, ambiguous and susceptible to multiple interpretations.
- 14. Registrant objects to the definition of "Document" to the extent that it requires production of "draft[s] or non-identical cop[ies]" on the grounds that the production of such documents is unreasonably cumulative, unduly burdensome and is not reasonably calculated to lead to the discovery of admissible evidence.

- 15. Registrant objects to the definition of "Identify (With Respect to Documents)" on the grounds that it is overly broad, unduly burdensome and seeks information that is neither relevant nor reasonably calculated to lead to the discovery of admissible evidence.
- 16. In responding to these Requests, Registrant does not waive the foregoing General Objections, nor does it waive the specific objections that are set forth in the responses to the individual Requests below. Registrant expressly reserves the right to object to further discovery into the subject matter of these Requests, to object to the introduction into evidence of any document or portion thereof, and to supplement or amend its responses.

INTERROGATORIES

INTERROGATORY NO. 1

State the earliest first use in commerce date claimed by Registrant for each and every category of goods identified in U.S. Trademark Registration No. 3,998,542.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. In particular, Registrant objects to this Request on the grounds that the term "category of goods" is vague, ambiguous and susceptible to multiple interpretations.

Subject to, and without waiving the forgoing objections, Registrant answers as follows: to the extent that Registrant understands the meaning of the vague and ambiguous term "category of goods," Registrant directs Petitioner to U.S. Trademark Registration No. 3,998,542, Bates No. ORTR000190, produced herewith in response to Petitioner's First Set of Requests for Production of Documents and Things. Registrant reserves its right to amend and/or supplement this Response consistent with further investigation and discovery.

INTERROGATORY NO. 2

State the earliest first use in commerce date claimed by Registrant for each and every category of goods identified in U.S. Trademark Registration No. 3,998,543.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. In particular, Registrant objects to this Request on the grounds that the term "category of goods" is vague, ambiguous and susceptible to multiple interpretations.

Subject to, and without waiving the forgoing objections, Registrant answers as follows: to the extent that Registrant understands the meaning of the vague and ambiguous term "category of goods," Registrant directs Petitioner to U.S. Trademark Registration No. 3,998,543, Bates No. ORTR000280, produced herewith in response to Petitioner's First Set of Requests for Production of Documents and Things. Registrant reserves its right to amend and/or supplement this Response consistent with further investigation and discovery.

INTERROGATORY NO. 3

Identify by common industry product description each product currently offered by

Registrant other than for equipment for voice and data communications systems, namely, cable

management racks and cabinets for copper and fiber optic data cables for structured cabling systems.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. In particular, Registrant objects to this Request on the grounds that it is overly broad, unduly burdensome and seeks information that is not relevant and not reasonably calculated to lead to the discovery of admissible evidence. Registrant also objects to this Request on the

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grounds that the terms "common industry product description" and "product" are vague, ambiguous and susceptible to multiple interpretations. Registrant reserves its right to amend and/or supplement this Response consistent with further investigation and discovery.

INTERROGATORY NO. 4

Identify all trade shows attended by Registrant since 2002.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. In particular, Registrant objects to this Request on the grounds that identification of "all trade shows" is overly broad and unduly burdensome. Registrant also objects to this Request on the grounds that it seeks information that is not relevant and not reasonably calculated to lead to the discovery of admissible evidence. In addition, Registrant objects to this Request on the grounds that the term "attended" is vague, ambiguous and susceptible to multiple interpretations.

Subject to, and without waiving the forgoing objections, Registrant answers as follows:

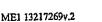
To the extent that Registrant understands the meaning of the vague and ambiguous term

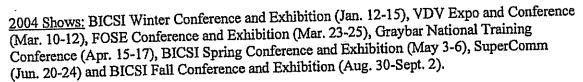
"attended," Registrant was present (or intends to be present) at the following trade shows since

2002:

2002 Shows: BICSI (Jan. 21-24), ComNet (Jan. 29-31), The International Builders Show (Feb. 8-11), The Electronic House Expo (Mar. 7-9), VDV Expo and Conference (Mar. 11-13), Graybar National Training Conference (Apr. 25-27), BICSI Spring Conference and Exhibition (May 6-9), Networld+ Interop (May 7-9), ISC East (Aug. 14-16), BICSI Fall Conference and Exhibition (Aug. 19-22), BICSI Canadian Conference and Exhibition (Sept. 16-19) and MFEEC (Oct. 27-29).

2003 Shows: BICSI Winter Conference and Exhibition (Jan. 13-16), ComNet (Jan. 28-30), VDV Expo and Conference (Mar. 10-12), FOSE Conference and Exhibition (Apr. 8-10); Graybar National Training Conference (Apr. 24-26), the National Guard Bureau's Annual Information Technology Conference (Apr. 28-May 2), BICSI Spring Conference and Exhibition (May 12-15), Directorate of Information Management Conference (May 13-16), Ft. Monmouth (May 22), BICSI Fall Conference and Exhibition (Aug. 18-21) and ISC (Oct. 1-3).





2005 Shows: BICSI Winter Conference and Exhibition (Jan. 24-27), Electric West Show (Feb. 8-10), AFCEA Tech Net (Mar. 8-9), Famous Telephone Supply Expo (Mar. 8-9), FOSE Conference and Exhibition (Apr. 5-7), AFCOM Data Center World Conference (Apr. 17-21), Graybar National Training Conference (Apr. 20-23), Ft. Monmouth (Apr. 21), BICSI Spring Conference and Exhibition (May 2-5), BICSI Fall Conference and Exhibition (Aug. 22-25), VDV/IBS Conference and Expo (merged with NECA's convention) (Sept. 17-20) and the National Guard Bureau's Annual Information Technology Conference (Dec. 5-8).

2006 Shows: BICSI Winter Conference and Exhibition (Jan. 23-26), FOSE Conference and Exhibition (Mar. 7-9), AFCOM Data Center World Conference (Mar. 19-23), Graybar National Training Conference (Apr. 27-29), Networld+ Interop (Apr. 30-May 5), IEEE GLOBECOM Technical Conference (Jun. 5-8), AFCOM Data Center World Conference (Sept. 10-13), Broadband Properties Summit (Sept. 11-13), Interop Fall (Sept. 18-22), BICSI Fall Conference and Exhibition (Sept. 18-21) and FTTH Conference & Expo (Oct. 2-5).

2007 Shows: BICSI Winter Conference and Exhibition (Jan. 22-25), FOSE Conference and Exhibition (Mar. 20-22), DC Dynamics (Mar. 20), AFCOM Data Center World Conference (Mar. 27-28), Digital City Expo (Apr. 2-4), BICSI Spring Conference and Exhibition (Apr. 15-17), Interop Spring (May 22-24), 7x24 Exchange Conference (Jun. 3-6), BICSI Fall Conference and Exhibition (Sept. 10-13), Broadband Properties Summit (Sept. 10-12), ASIS International (Sept. 24-26) and Interop Fall (Oct. 23-25).

2008 Shows: BICSI Winter Conference and Exhibition (Jan. 13-16), FOSE Conference and Exhibition (Apr. 1-3), AFCOM Data Center World Conference (Apr. 1-2), ISC West (Apr. 2-4), GBE CommData Training Conference (Apr. 24-26), BICSI Spring Conference and Exhibition (Apr. 28-30), Interop Las Vegas (Apr. 27-May 2), ASIS Security Trade Show (Sept. 15-17), Interop (Sept. 17-18), BICSI Fall Conference and Exhibition (Sept. 29-Oct. 2) and ISC East (Oct. 29-30).

2009 Shows: BICSI Winter Conference and Exhibition (Jan. 17-21), FOSE Conference and Exhibition (Mar. 10-12), ISC West (Apr. 1-3), Graybar National Training Conference (Apr. 23-25), Interop Las Vegas (May 19-21), InfoComm (Jun. 17-19) and Cisco Live! (Jun. 28-Jul. 2).

2010 Shows: BICSI Winter Conference and Exhibition (Jan. 13-16), Cisco Barcelona (Jan. 25-28), FOSE Conference and Exhibition (Mar. 23-26), ISC West (Mar. 23-26), Graybar National Training Conference (Apr. 22-24), Interop (Apr. 25-30), Cisco Live! (Jun. 28-Jul. 2), AFCEA Tech Net (Oct. 25-27) and Gartner Data Center Conference (Dec. 6-8).

2011 Shows: BICSI Winter Conference and Exhibition (Jan. 16-20), Cisco Live! London (Jan. 31-Feb. 3), FOSE Conference and Exhibition, Graybar National Training Conference (Apr. 7-9), Gartner IT IOM Summit (Jun. 13-15), Cisco Live! (Jul. 10-14), BICSI Fall Conference and

Exhibition (Sept. 18-22), Gartner Symposium/ITxpo (Oct. 16-20), AFCEA Tech Net (Oct. 19-21), DCD-Chicago (Oct. 6), DCD-Singapore (Oct. 20), DCD-Dallas (Nov. 1), DCD-Chile (Nov. 23), DCD-Doha (Nov. 29) and Gartner Data Center Conference (Dec. 5-8).

2012 Shows: BICSI Winter Conference and Exhibition (Feb. 12-16), Cisco Live! London (Jan. 31-Feb. 3), DCD-New York (Mar. 13), DCD-Riyadh (Mar. 28), DCD-Phoenix (Apr. 13), Graybar National Training Conference (Apr. 19-22), DCD-Seattle (May 9), DCD-Milan (May 25), Gartner IT IOM Summit (Jun. 5-7), Cisco Live! (Jun. 10-14), DCD-Hong Kong (Jun. 24), DCD-San Francesco (Jul. 30), DCD-Shanghai (Sept. 6), DCD- Washington, D.C. (Sept. 12), Gartner Symposium/Txpo (Oct. 21-25), DCD-Mexico (Oct. 23), DCD-Chile (Nov. 23) and AFCEA Tech Net (Nov. 13-15), Gartner Data Center Conference (Dec. 3-6).

Registrant reserves its right to amend and/or supplement this Response consistent with further investigation and discovery.

INTERROGATORY NO. 5

Identify all customers to whom Registrant has sold any of the goods identified in U.S. Trademark Registration No. 3,998,542.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. In particular, Registrant objects to this Request on the grounds that identification of "all customers" is overly broad and unduly burdensome. Registrant also objects to this Request on the grounds that it seeks information that is not relevant and not reasonably calculated to lead to the discovery of admissible evidence. Registrant reserves its right to amend and/or supplement this Response consistent with further investigation and discovery.

INTERROGATORY NO. 6

Identify all customers to whom Registrant has sold any of the goods identified in U.S. Trademark Registration No. 3,998,543.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. In particular, Registrant objects to this Request on the grounds that identification of "all customers" is overly broad and unduly burdensome. Registrant also objects to this Request on the grounds that it seeks information that is not relevant and not reasonably calculated to lead to the discovery of admissible evidence. Registrant reserves its right to amend and/or supplement this Response consistent with further investigation and discovery.

INTERROGATORY NO. 7

Identify all customers to whom Registrant has sold any goods other than those identified in U.S. Trademark Registration Nos. 3,998,542 and 3,998,543.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. In particular, Registrant objects to this Request on the grounds that identification of "all customers" is overly broad and unduly burdensome. Registrant also objects to this Request on the grounds that it seeks information that is not relevant and not reasonably calculated to lead to the discovery of admissible evidence. Registrant reserves its right to amend and/or supplement this Response consistent with further investigation and discovery.

INTERROGATORY NO. 8

Identify by type of media all channels in which Registrant promotes the sale of its goods identified in U.S. Trademark Registration Nos. 3,998,542 and 3,998,543.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. In particular, Registrant objects to this Request on the grounds that identification of "all channels" is overly broad and unduly burdensome. Registrant also objects to this Request on the grounds that it seeks information that is not relevant and not reasonably calculated to lead to the discovery of admissible evidence. In addition, Registrant objects to this Request on the grounds that the terms "type of media," channels," and "promotes" are vague, ambiguous and susceptible to multiple interpretations.

Subject to, and without waiving the forgoing objections, Registrant answers as follows: to the extent that Registrant understands the meaning of the vague and ambiguous terms, Registrant utilizes print media, social media, on-line advertising, trade show appearances, white paper sponsorships and smartphone applications to promote its products. Registrant reserves its right to amend and/or supplement this Response consistent with further investigation and discovery.

INTERROGATORY NO. 9

Identify by type of media all channels in which Registrant promotes the sale of its goods other that those identified in U.S. Trademark Registration Nos. 3,998,542 and 3,998,543.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. In particular, Registrant objects to this Request on the grounds that identification of "all channels" is overly broad and unduly burdensome. Registrant also objects to this Request on the grounds that it seeks information that is not relevant and not reasonably calculated to lead to the discovery of admissible evidence. In addition, Registrant objects to this Request on the grounds that the terms "type of media," channels," and "promotes" are vague, ambiguous and susceptible

to multiple interpretations. Registrant reserves its right to amend and/or supplement this Response consistent with further investigation and discovery.

INTERROGATORY NO. 10

Identify all persons other than Petitioner that have communicated to Registrant an inquiry or statement concerning any affiliation, connection or association between Petitioner and Registrant.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. In particular, Registrant objects to this Request on the grounds that identification of "all persons" is overly broad and unduly burdensome. In addition, Registrant objects to this Request on the grounds that the terms "communicated," "inquiry," "statement" and "affiliation, connection or association" are vague, ambiguous and susceptible to multiple interpretations.

Subject to, and without waiving the forgoing objections, and to the extent that it understands the meaning of the vague and ambiguous terms, Registrant answers as follows: without admission that the following constitutes either "an inquiry or statement concerning any affiliation, connection or association between Petitioner and Registrant" or is otherwise responsive to this Request, Tony Walker recalls that while working at one of the Registrant's trade show booths in the summer of 2010, an unnamed, anonymous tradeshow attendee mentioned in passing the name "Layer Zero Power Systems."

Registrant reserves its right to amend and/or supplement this Response consistent with further investigation and discovery.

INTERROGATORY NO. 11

Identify all persons other than Petitioner that have communicated to Registrant an inquiry of statement concerning either party's sponsorship or approval of the other's goods, services or commercial activities.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. In particular, Registrant objects to this Request on the grounds that identification of "all persons" is overly broad and unduly burdensome. In addition, Registrant objects to this Request on the grounds that the terms "communicated," "inquiry of statement" "sponsorship" and "approval" are vague, ambiguous and susceptible to multiple interpretations.

Subject to, and without waiving the forgoing objections, Registrant answers as follows: to the extent that Registrant understands the meaning of the vague and ambiguous terms and upon Registrant's present knowledge and belief, Registrant can identify no such persons. Registrant reserves its right to amend and/or supplement this Response consistent with further investigation and discovery.

INTERROGATORY NO. 12

Identify all persons other than Petitioner that have communicated to Registrant an inquiry or statement concerning whether any of Petitioner's Goods originate with Registrant or whether any of Registrant's goods originate with Petitioner.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. In particular, Registrant objects to this Request on the grounds that identification of "all persons" is overly broad and unduly burdensome. In addition, Registrant objects to this Request

on the grounds that the terms "communicated," "inquiry," "statement" and "originate" are vague, ambiguous and susceptible to multiple interpretations.

Subject to, and without waiving the forgoing objections, Registrant answers as follows: to the extent that Registrant understands the meaning of the vague and ambiguous terms and upon Registrant's present knowledge and belief, Registrant can identify no such persons. Registrant reserves its right to amend and/or supplement this Response consistent with further investigation and discovery.

INTERROGATORY NO. 13

State the factual basis of Registrant's denial of Paragraph 9 of the Petition for Cancellation in Registrant's Answer to Petition for Cancellation.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. In addition, Registrant objects to this Request on the ground that it is an improper contention interrogatory that seeks a legal conclusion and, thus, is premature and inappropriate at this time. Registrant further objects to this Request to the extent that it seeks information protected by the attorney-client privilege and work product doctrine.

Subject to, and without waiving the foregoing objections, Registrant answers as follows: although Petitioner's mark includes the feature "LayerZero," it also includes the wording "Power Systems, Inc." This causes the mark to be suggestive of "power systems" or a company that provides "power systems." This commercial impression is reinforced by the goods cited in Petitioner's U.S. Trademark Application No. 77/727,998, such as "electrical static transfer switches, electrical power distribution units, electrical integrated static transfer switch-power distribution unit systems, electrical remote power panels, and electrical remote distribution panels." Based on the foregoing,

Registrant denied Paragraph 9 of the Petition for Cancellation in its Answer to Petition for Cancellation. Registrant reserves its right to amend and/or supplement this Response consistent with further investigation and discovery.

INTERROGATORY NO. 14

State the factual basis of Registrant's first affirmative defense in Registrant's Answer to Petition for Cancellation.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. In addition, Registrant objects to this Request on the ground that it is an improper contention interrogatory that seeks a legal conclusion and, thus, is premature and inappropriate at this time. Registrant further objects to this Request to the extent that it seeks information protected by the attorney-client privilege and work product doctrine. Registrant reserves its right to amend and/or supplement this Response consistent with further investigation and discovery.

INTERROGATORY NO. 15

State the factual basis of Registrant's third affirmative defense in Registrant's Answer to Petition for Cancellation.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. In addition, Registrant objects to this Request on the ground that it is an improper contention interrogatory that seeks a legal conclusion and, thus, is premature and inappropriate at this time.

Registrant further objects to this Request to the extent that it seeks information protected by the

attorney-client privilege and work product doctrine. Registrant reserves its right to amend and/or supplement this Response consistent with further investigation and discovery.

INTERROGATORY NO. 16

State the factual basis of Registrant's fourth affirmative defense in Registrant's Answer to Petition for Cancellation.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. In addition, Registrant objects to this Request on the ground that it is an improper contention interrogatory that seeks a legal conclusion and, thus, is premature and inappropriate at this time. Registrant further objects to this Request to the extent that it seeks information protected by the attorney-client privilege and work product doctrine. Registrant reserves its right to amend and/or supplement this Response consistent with further investigation and discovery.

INTERROGATORY NO. 17

Identify all authorized users of the LAYER ZERO mark.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. In particular, Registrant objects to this Request on the grounds that identification of "all authorized users" is overly broad and unduly burdensome. Moreover, Registrant objects to this Request on the grounds that the term "authorized users" is vague, ambiguous and susceptible to multiple interpretations. Registrant also objects to this Request on the grounds that it seeks

information that is not relevant and not reasonably calculated to lead to the discovery of admissible evidence.

Subject to, and without waiving the forgoing objections, and to the extent that Registrant understands the meaning of the vague and ambiguous term "authorized users," Registrant answers as follows:

Ortronics, Inc. 125 Eugene Oneill Drive New London, CT 06320

Legrand North America, Inc. 60 Woodlawn St. West Hartford, CT 06110

The Wiremold Company 60 Woodlawn St. West Hartford, CT 06110

Cablofil 8319 State Route 4 Mascoutah, IL: 62258

Electrorack 1443 South Sunkist Street Anaheim, CA 93806

NxGen, LLC d/b/a Triad Raised Floor Company 999 18th Street Suite 3000 Denver, CO 80202

Registrant reserves its right to amend and/or supplement this Response consistent with further investigation and discovery.

INTERROGATORY NO. 18

Identify all authorized users of the LAYER 0 mark.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. In particular, Registrant objects to this Request on the grounds that identification of "all authorized users" is overly broad and unduly burdensome. Moreover, Registrant objects to this Request on the grounds that the term "authorized users" is vague, ambiguous and susceptible to multiple interpretations. Registrant also objects to this Request on the grounds that it seeks information that is not relevant and not reasonably calculated to lead to the discovery of admissible evidence.

Subject to, and without waiving the forgoing objections, and to the extent that Registrant understands the meaning of the vague and ambiguous term "authorized users," Registrant answers as follows:

Ortronics, Inc. 125 Eugene Oneill Drive New London, CT 06320

Legrand North America, Inc. 60 Woodlawn St. West Hartford, CT 06110

The Wiremold Company 60 Woodlawn St. West Hartford, CT 06110

Cablofil 8319 State Route 4 Mascoutah, IL 62258

Electrorack 1443 South Sunkist Street Anaheim, CA 93806 NxGen, LLC d/b/a Triad Raised Floor Company 999 18th Street Suite 3000 Denver, CO 80202

Registrant reserves its right to amend and/or supplement this Response consistent with further investigation and discovery.

Respectfully submitted,

/s/ Mark D. Giarratana
Mark D. Giarratana
Susan M. Schlesinger
Shawn Smith
McCarter & English, LLP
185 Asylum Street
CityPlace I
Hartford, CT 06103
860.275.6700
860.724.3397 (fax)
mgiarratana@mccarter.com

Attorneys for Registrant Ortronics, Inc.

VERIFICATION

I, Tony Walker, being duly sworn, state that I am Director of Marketing for Ortronics, Inc. and that the foregoing Responses and Objections to Petitioner's First Set of Interrogatories are true and accurate to the best of my knowledge, information, and belief.

Pursuant to 28 U.S.C. § 1746, I declare under penalty of perjury that the foregoing is true and correct.

Executed on May 3, 2012.

Tony Walker

CERTIFICATE OF SERVICE

The undersigned hereby certifies that a copy of the foregoing was served on Petitioner

LayerZero Power Systems, Inc. on the date indicated below via e-mail to:

Raymond Rundelli, Esq.
Juliet P. Castrovinci, Esq.
CALFEE, HALTER & GRISWOLD LLP
The Calfee Building
1405 East Sixth Street
Cleveland, OH 44114-1607
rrundelli@calfee.com
jcastrovinci@calfee.com

Dated: May 3, 2012

/s/ Mark D. Giarratana Mark. D. Giarratana

United States of America Multon States Antent and Trademark Office United States Patent and Trademark Office

LAYER ZERO

Reg. No. 3,998,542

ORTRONICS, INC. (CONNECTICUT CORPORATION)

Registered July 19, 2011 NEW LONDON, CT 06320

125 EUGENE O'NEILL DRIVE

Int. Cl.: 9

FOR: EQUIPMENT FOR VOICE AND DATA COMMUNICATIONS SYSTEMS, NAMELY, CABLE MANAGEMENT RACKS AND CABINETS FOR COPPER AND FIBER OPTIC DATA CABLES FOR STRUCTURED CABLING SYSTEMS, IN CLASS 9 (U.S. CLS. 21, 23, 26, 36

TRADEMARK AND 38).

PRINCIPAL REGISTER

FIRST USE 11-5-2009; IN COMMERCE 11-5-2009.

THE MARK CONSISTS OF STANDARD CHARACTERS WITHOUT CLAIM TO ANY PAR-TICULAR FONT, STYLE, SIZE, OR COLOR.

SN 77-580,391, FILED 9-26-2008.

NORA BUCHANAN WILL, EXAMINING ATTORNEY



United States of America United States Patent and Trademark Office

LAYER 0

Reg. No. 3,998,543

ORTRONICS, INC. (CONNECTICUT CORPORATION)

Registered July 19, 2011 NEW LONDON, CT 06320

Int. Cl.: 9

FOR: EQUIPMENT FOR VOICE AND DATA COMMUNICATIONS SYSTEMS, NAMELY,

CABLE MANAGEMENT RACKS AND CABINETS FOR COPPER AND FIBER OPTIC DATA CABLES FOR STRUCTURED CABLING SYSTEMS, IN CLASS 9 (U.S. CLS. 21, 23, 26, 36

AND 38).

TRADEMARK

PRINCIPAL REGISTER FIRST USE 11-5-2009; IN COMMERCE 11-5-2009.

THE MARK CONSISTS OF STANDARD CHARACTERS WITHOUT CLAIM TO ANY PAR-

TICULAR FONT, STYLE, SIZE, OR COLOR.

SN 77-580,392, FILED 9-26-2008.

NORA BUCHANAN WILL, EXAMINING ATTORNEY



Director of the United States Potent and Trademark Offic

EXHIBIT E



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE TRADEMARK TRIAL AND APPEAL BOARD

| In the Matter of Registration Nos.: For the Marks: Date of Issue: | 3,998,542 and 3,998,543 LAYER ZERO and LAYER 0 July 19, 2011 | | |
|---|--|----|--|
| LAYERZERO POWER SYSTEMS, | INC. | | |
| Petitioner, | Cancellation No.: 9205457 | '3 | |
| v. |) | | |
| ORTRONICS, INC., | \ | | |
| Registrant. | , | | |

REGISTRANT'S RESPONSES AND OBJECTIONS TO PETITIONER'S FIRST SET OF REQUESTS FOR ADMISSION

Pursuant to Rules 26 and 36 of the Federal Rules of Civil Procedure and 37 C.F.R. 2.120, Registrant Ortronics, Inc. ("Registrant") hereby provides its responses and objections to the First Set of Requests for Admission (collectively, the "Requests") proffered by Petitioner LayerZero Power Systems, Inc. ("Petitioner") on March 20, 2012. Registrant continues its investigation into the subject matter underlying this action, and it submits these responses and objections based only on its present knowledge and belief. Registrant reserves its right to amend and/or supplement its responses and objections to the Requests consistent with further investigation and discovery.

GENERAL OBJECTIONS

1. Registrant objects to the "Instructions and Definitions" and these Requests to the extent that they purport to impose upon it any obligation beyond that required by Federal Rules of Civil Procedure and/or the Rules of Trademark Practice in the U.S. Patent and Trademark Office.



ME1 13216856v.1

- 2. Registrant objects to these Requests to the extent they seek information that is neither relevant to the subject matter of the pending action nor reasonably calculated to lead to the discovery of admissible evidence.
- 3. Registrant objects to these Requests to the extent they seek the discovery of information subject to the attorney-client privilege or work-product doctrine, or other applicable privileges. The inadvertent disclosure of any communication covered by such protections shall not be deemed a waiver thereof.
- 4. To the extent that Registrant responds to these Requests, such responses should not be construed as a representation or admission that the information provided in the response is relevant or admissible at trial.
- 5. Registrant objects to each and every Request to the extent that the response may be derived or ascertained from records or other documents that are in the possession or control of Petitioner or from documents that are readily available to Petitioner in this proceeding. To the extent the response to a Request can be ascertained or derived from documents or information in Petitioner's possession, custody or control, the development of that response by Petitioner is significantly more convenient and less burdensome than it is for Registrant.
- 6. Registrant objects to each Request, including the "Instructions and Definitions" incorporated therein, to the extent that they are vague, indefinite, ambiguous, overbroad, unduly burdensome, not reasonably calculated to lead to the discovery of admissible evidence, unreasonably cumulative or duplicative, without temporal limitations, or seeks information that may be obtained from another source that is more convenient, less burdensome or less expensive.
- 7. Registrant objects to any and all Requests that seek information that Registrant is required to maintain in confidence pursuant to an agreement or understanding with any third-

party or that otherwise are protected under contractual, constitutional, statutory, and/or common law rights of confidentiality or privacy.

- 8. Registrant objects to the extent that these Requests require Registrant to conduct anything other than a reasonable inquiry into the information requested, or to produce information not within Registrant's possession, custody, or control.
- 9. Registrant objects to the extent that any Request implies the existence of facts or circumstances not of record or that do not exist, and to the extent that any request assumes a legal conclusion. By responding, Registrant does not admit any factual or legal assumptions contained in any Request.
 - 10. Registrant objects to the extent that any Request calls for a legal conclusion.
- 11. Registrant objects to these Requests to the extent that they are compound and incorporate multiple Requests into a single Request.
- 12. Registrant object to these Requests to the extent that they seek information more properly obtained through other forms of discovery, such as depositions.
- 13. Registrant objects to the definition of "Communication" on the grounds that it is vague, ambiguous and subject to multiple interpretations.
- 14. Registrant objects to the definition of "Document" to the extent that it requires production of "draft[s] or non-identical cop[ies]" on the grounds that the production of such documents is unreasonably cumulative, unduly burdensome and is not reasonably calculated to lead to the discovery of admissible evidence.
- 15. Registrant objects to the definition of "Identify (With Respect to Persons)" on the grounds that it is overly broad, unduly burdensome and seeks information that is neither relevant nor reasonably calculated to lead to the discovery of admissible evidence.





- 16. Registrant objects to the definition of "Identify (With Respect to Documents)" on the grounds that it is overly broad, unduly burdensome and seeks information that is neither relevant nor reasonably calculated to lead to the discovery of admissible evidence.
- 17. In responding to these Requests, Registrant does not waive the foregoing General Objections, nor does it waive the specific objections that are set forth in the responses to the individual Requests below. Registrant expressly reserves the right to object to further discovery into the subject matter of these Requests, to object to the introduction into evidence of any document or portion thereof, and to supplement or amend its responses.

REQUESTS FOR ADMISSION

REQUEST FOR ADMISSION NO. 1

Admit that Registrant is the current record owner of U.S. Trademark Registration No. 3,998,542 for the mark LAYER ZERO, which is registered on the Principal Register in International Class 009 for "equipment for voice and data communications systems, namely, cable management racks and cabinets for copper and fiber optic data cables for structured cabling systems."

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. Registrant further objects to this Request on the grounds that the term "current" is vague, ambiguous and susceptible to multiple interpretations.

Subject to, and without waiving the forgoing objections, and to the extent that Registrant understands the meaning of the vague and undefined terms, Registrant admits.



Admit that Registrant is the current record owner of U.S. Trademark Registration No.

3,998,543 for the mark LAYER 0, which is registered on the Principal Register in International Class

009 for "equipment for voice and data communications systems, namely, cable management racks

and cabinets for copper and fiber optic data cables for structured cabling systems."

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. Registrant further objects to this Request on the grounds that the term "current" is vague, ambiguous and susceptible to multiple interpretations.

Subject to, and without waiving the forgoing objections, and to the extent that Registrant understands the meaning of the vague and undefined terms, Registrant admits.

REQUEST FOR ADMISSION NO. 3

Admit that the document attached as Exhibit 1 is a true and correct copy of Registrant's Answer in this proceeding.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. Registrant further states that the Registrant's Answer, a copy of which was attached as Exhibit I to these Requests, speaks for itself.

Subject to, and without waiving the forgoing objections, Registrant admits that the Registrant's Answer appears to be a true and correct copy of Registrant's Answer in this proceeding.



Admit that a first use date of November 5, 2009 was claimed in the statement of use filed for "equipment for voice and data communications systems, namely, cable management racks and cabinets for copper and fiber optic data cables for structured cabling systems" for U.S. Trademark Application No. 77/580,391 that matured to U.S. Trademark Registration No. 3,998,542.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. Registrant further states that the content of the U.S. Trademark Application No. 77/580,391 speaks for itself.

Subject to, and without waiving the forgoing objections, Registrant admits.

REQUEST FOR ADMISSION NO. 5

Admit that a first use date of November 5, 2009 was claimed in the statement of use filed for "equipment for voice and data communications systems, namely, cable management racks and cabinets for copper and fiber optic data cables for structured cabling systems" for U.S. Trademark Application No. 77/580,392 that matured to U.S. Trademark Registration No. 3,998,543.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. Registrant further states that the content of the U.S. Trademark Application No. 77/580,392 speaks for itself.

Subject to, and without waiving the forgoing objections, Registrant admits.



Admit that Registrant is the current owner of U.S. Trademark Registration No. 3,045,151.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. Registrant further objects to this Request on the grounds that it is not reasonably calculated to lead to the discovery of admissible evidence. In addition, Registrant objects to this Request on the grounds that the term "current" is vague, ambiguous and susceptible to multiple interpretations.

Subject to, and without waiving the forgoing objections, and to the extent that Registrant understands the meaning of the vague and undefined terms, Registrant admits.

REQUEST FOR ADMISSION NO. 7

Admit that Registrant is the current owner of U.S. Trademark Registration No. 3,746,520.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. Registrant further objects to this Request on the grounds that it is not reasonably calculated to lead to the discovery of admissible evidence. In addition, Registrant objects to this Request on the grounds that the term "current" is vague, ambiguous and susceptible to multiple interpretations.

Subject to, and without waiving the forgoing objections, and to the extent that Registrant understands the meaning of the vague and undefined terms, Registrant admits.





Admit that Registrant is currently using in commerce the mark covered by U.S. Trademark Registration No. 3,045,151 for all the goods claimed in the registration.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. Registrant further objects to this Request on the grounds that it is overly broad, unduly burdensome, not reasonably limited in scope and not reasonably calculated to lead to the discovery of admissible evidence. In addition, Registrant objects to this Request on the grounds that the term "currently" is vague, ambiguous and susceptible to multiple interpretations.

Registrant is unable to admit or deny this Request for the reasons stated in the objection.



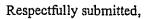
Admit that Registrant is currently using in commerce the mark covered by U.S. Trademark Registration No. 3,746,520 for all the goods claimed in the registration.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. Registrant further objects to this Request on the grounds that it is overly broad, unduly burdensome, not reasonably limited in scope and not reasonably calculated to lead to the discovery of admissible evidence. In addition, Registrant objects to this Request on the grounds that the term "currently" is vague, ambiguous and susceptible to multiple interpretations.

Registrant is unable to admit or deny this Request for the reasons stated in the objection.





/s/ Mark D. Giarratana
Mark D. Giarratana
Susan M. Schlesinger
Shawn Smith
McCarter & English, LLP
185 Asylum Street
CityPlace I
Hartford, CT 06103
860.275.6700
860.724.3397 (fax)
mgiarratana@mccarter.com

Attorneys for Registrant Ortronics, Inc.



CERTIFICATE OF SERVICE

The undersigned hereby certifies that a copy of the foregoing was served on Petitioner

LayerZero Power Systems, Inc. on the date indicated below via e-mail to:

Raymond Rundelli, Esq.
Juliet P. Castrovinci, Esq.
CALFEE, HALTER & GRISWOLD LLP
The Calfee Building
1405 East Sixth Street
Cleveland, OH 44114-1607
rrundelli@calfee.com
jcastrovinci@calfee.com

Dated: May 3, 2012

/s/ Mark D. Giarratana Mark. D. Giarratana





Trademark Trial and Appeal Board Electronic Filing System. http://estta.uspto.gov

ESTTA Tracking number:

ESTTA439862

Filing date:

11/07/2011

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE TRADEMARK TRIAL AND APPEAL BOARD

| Proceeding | 92054573 |
|---------------------------|---|
| Party | Defendant Ortronics, Inc. |
| Correspondence Address | ORTRONICS INC 125 EUGENE O'NEILL DRIVE NEW LONDON, CT 06320 UNITED STATES |
| Submission | Answer |
| Filer's Name | Susan M. Schlesinger |
| Filer's e-mail | mgiarratana@mccarter.com,sschlesinger@mccarter.com,jwhitney@mccarter.co m |
| Signature | /Susan M. Schlesinger/ |
| Date | 11/07/2011 |
| Attachments | 2112_001- Answer to Petition for Cancellation 110711.pdf (5 pages)(149648 bytes) |





IN THE UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE TRADEMARK TRIAL AND APPEAL BOARD

In the Matter of Registration Nos.: 3,998,542 and 3,998,543

For the Marks: LAYER ZERO and LAYER 0

Issued on: July 19, 2011

| LAYERZERO POWER SYSTEMS, INC. | |) | C 11 2 37 00054550 |
|-------------------------------|-------------|---------------------------|--------------------|
| | Petitioner, |) Cancellation No. 920545 | |
| v. | |) | |
| ORTRONICS, INC. | |) | |
| , | Registrant. |) | |

REGISTRANT'S ANSWER TO PETITION FOR CANCELLATION



Registrant Ortronics, Inc. ("Ortronics" or "Registrant") is a corporation organized and existing under the laws of the State of Connecticut with its place of business at 125 Eugene O'Neill Drive, New London, Connecticut 06320. Registrant, by and through its attorneys, answers the Petition for Cancellation in connection with the above-referenced matter as follows.

With respect to the grounds for cancellation, Registrant responds as follows:

Grounds for Cancellation

- 1. Admitted.
- Admitted.
- 3. Registrant is without knowledge or information sufficient to form a belief as to the truth of the allegations of Paragraph 3 of the Petition for Cancellation, and therefore denies those allegations.



- 4. Registrant is without knowledge or information sufficient to form a belief as to the truth of the allegations of Paragraph 4 of the Petition for Cancellation, and therefore denies those allegations.
- 5. Registrant is without knowledge or information sufficient to form a belief as to the truth of the allegations of Paragraph 5 of the Petition for Cancellation, and therefore denies those allegations.
- 6. Registrant admits that the Examining Attorney to whom the '998

 Application was assigned for processing identified the applications that subsequently matured into the '542 and '543 Registrations. Registrant is without knowledge or information sufficient to form a belief as to the truth of the remaining allegations of Paragraph 6 of the Petition for Cancellation, and therefore denies those allegations.
 - 7. Admitted.
 - 8. Admitted.
 - 9. Registrant denies the allegations of Paragraph 9.
 - 10. Registrant denies the allegations of Paragraph 10.
 - 11. Registrant denies the allegations of Paragraph 11.
- 12. Registrant is without knowledge or information sufficient to form a belief as to the truth of the allegations of Paragraph 12 of the Petition for Cancellation, and therefore denies those allegations.
- 13. Registrant is without knowledge or information sufficient to form a belief as to the truth of the allegations of Paragraph 13 of the Petition for Cancellation, and therefore denies those allegations.



- 14. Registrant is without knowledge or information sufficient to form a belief as to the truth of the allegations of Paragraph 14 of the Petition for Cancellation, and therefore denies those allegations.
- 15. Registrant is without knowledge or information sufficient to form a belief as to the truth of the allegations of Paragraph 15 of the Petition for Cancellation, and therefore denies those allegations.
 - 16. Registrant denies the allegations of Paragraph 16.
- 17. Registrant admits that the trademark applications which matured into U.S. Registration Nos. 3,998,542 and 3,998,543 were filed on September 26, 2008 and that the date of first use claimed on both applications is November 5, 2009. Registrant is without knowledge or information sufficient to form a belief as to the truth of the remaining allegations of Paragraph 17 of the Petition for Cancellation, and therefore denies those allegations.
 - 18. Registrant denies the allegations of Paragraph 18.
- 19. Registrant is without knowledge or information sufficient to form a belief as to the truth of the allegations of Paragraph 19 of the Petition for Cancellation, and therefore denies those allegations.

Affirmative Defenses

- 1. The Petition for Cancellation fails to state a claim upon which relief may be granted.
- 2. There is no likelihood of confusion, mistake or deception of the public between the Petitioner's LAYERZERO POWER SYSTEMS, INC. mark and the LAYER ZERO and LAYER 0 marks that are the subject of Registrant's U.S. Trademark Registration Nos. 3,998,542 and 3,998,543.

- 3. Petitioner has unreasonably delayed in asserting its alleged rights and is barred by the doctrines of laches, acquiescence and/or estoppel from pursuing the Petition for Cancellation.
- 4. Petitioner is barred by the doctrine of unclean hands from pursuing the Petition for Cancellation.
- 5. Upon information and belief, Petitioner cannot claim priority over Registrant and its LAYER ZERO and LAYER 0 trademarks.

WHEREFORE, Registrant requests that the Trademark Trial and Appeal Board dismiss with prejudice the Petition for Cancellation.

Respectfully submitted,

Date: November 7, 2011

By: /Mark D. Giarratana/
Mark D. Giarratana
Susan M. Schlesinger
McCarter & English LLP
185 Asylum Street
CityPlace I
Hartford, CT 06103
860.275.6700
860.724.3397 (fax)
mgiarratana@mccarter.com

Attorney for Registrant Ortronics, Inc.

CERTIFICATE OF SERVICE AND FILING

The undersigned hereby certifies that a copy of the foregoing Registrant's Answer to

Petition for Cancellation was served on the Petitioner on the date indicated below by depositing
the same with U.S.P.S. First Class Mail, postage prepaid to:

Raymond Rundelli, Esq.
Juliet P. Castrovinci, Esq.
CALFEE, HALTER & GRISWOLD LLP
1400 KeyBank Center
800 Superior Avenue
Cleveland, OH 44114-2688

and further certifies that the aforementioned Registrant's Answer to Petition for Cancellation was filed with the Trademark Trial and Appeal Board on the date indicated below online through the ESTTA system of the United States Patent and Trademark Office.

Dated: November 7, 2011

/Susan M. Schlesinger/ Susan M. Schlesinger



EXHIBIT F

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE TRADEMARK TRIAL AND APPEAL BOARD

| In the Matter of Registration Nos.: For the Marks: Date of Issue: | 3,998,542 and 3,998,543 LAYER ZERO and LAYER 0 July 19, 2011 | | |
|---|--|---------------------------------------|--|
| LAYERZERO POWER SYSTEMS | , INC. | · · · · · · · · · · · · · · · · · · · | |
| Petitioner, | , |) Cancellation No.: 92054573 | |
| ν. | * | | |
| ORTRONICS, INC., | |) | |
| Registrant, | | .) | |

REGISTRANT'S RESPONSES AND OBJECTIONS TO PETITIONER'S SECOND SET OF INTERROGATORIES

Pursuant to Rules 26 and 33 of the Federal Rules of Civil Procedure and 37 C.F.R. 2.120, Registrant Ortronics, Inc. ("Registrant") hereby provides its responses and objections to the Second Set of Interrogatories (collectively, the "Requests") proffered by Petitioner LayerZero Power Systems, Inc. ("Petitioner") on April 27, 2012. Registrant continues its investigation into the subject matter underlying this action, and it submits these responses and objections based only on its present knowledge and belief. Registrant reserves its right to amend and/or supplement its responses and objections to the Requests consistent with further investigation and discovery.

GENERAL OBJECTIONS

1. Registrant objects to the "Instructions and Definitions" and these Requests to the extent that they purport to impose upon it any obligation beyond that required by Federal Rules

of Civil Procedure and/or the Rules of Trademark Practice in the U.S. Patent and Trademark Office.

- 2. Registrant objects to these Requests to the extent that they seek the identification or production of "all" information, or the like, on grounds that such a Request is unduly burdensome and overly broad.
- 3. Registrant objects to these Requests to the extent they seek information that is neither relevant to the subject matter of the pending action nor reasonably calculated to lead to the discovery of admissible evidence.
- 4. Registrant objects to these Requests to the extent they seek the discovery of information subject to the attorney-client privilege or work-product doctrine, or other applicable privileges. The inadvertent disclosure of any communication covered by such protections shall not be deemed a waiver thereof.
- 5. To the extent that Registrant responds to these Requests, such responses should not be construed as a representation or admission that the information provided in the response is relevant or admissible at trial.
- 6. Registrant objects to each and every Request to the extent that the response may be derived or ascertained from records or other documents that are in the possession or control of Petitioner or from documents that are readily available to Petitioner in this proceeding. To the extent the response to a Request can be ascertained or derived from documents or information in Petitioner's possession, custody or control, the development of that response by Petitioner is significantly more convenient and less burdensome than it is for Registrant.
- 7. Registrant objects to each Request, including the "Instructions and Definitions" incorporated therein, to the extent that they are vague, indefinite, ambiguous, overbroad, unduly

burdensome, not reasonably calculated to lead to the discovery of admissible evidence, unreasonably cumulative or duplicative, without temporal limitations, or seeks information that may be obtained from another source that is more convenient, less burdensome or less expensive.

- 8. Registrant objects to any and all Requests that seek information that Registrant is required to maintain in confidence pursuant to an agreement or understanding with any third-party or that otherwise are protected under contractual, constitutional, statutory, and/or common law rights of confidentiality or privacy.
- 9. Registrant objects to the extent that these Requests require Registrant to conduct anything other than a reasonable inquiry into the information requested, or to produce information not within Registrant's possession, custody, or control.
- 10. Registrant objects to the extent that any Request implies the existence of facts or circumstances not of record or that do not exist, and to the extent that any request assumes a legal conclusion. By responding, Registrant does not admit any factual or legal assumptions contained in any Request.
 - 11. Registrant objects to the extent that any Request calls for a legal conclusion.
- 12. Registrant objects to these Requests to the extent that they are compound and incorporate multiple Requests into a single Request.
- 13. Registrant objects to the definition of "Communication" on the grounds that it is vague, ambiguous and susceptible to multiple interpretations.
- 14. Registrant objects to the definition of "Document" to the extent that it requires production of "draft[s] or non-identical cop[ies]" on the grounds that the production of such documents is unreasonably cumulative, unduly burdensome and is not reasonably calculated to lead to the discovery of admissible evidence.

- 15. Registrant objects to the definition of "Identify (With Respect to Documents)" on the grounds that it is overly broad, unduly burdensome and seeks information that is neither relevant nor reasonably calculated to lead to the discovery of admissible evidence.
- 16. In responding to these Requests, Registrant does not waive the foregoing General Objections, nor does it waive the specific objections that are set forth in the responses to the individual Requests below. Registrant expressly reserves the right to object to further discovery into the subject matter of these Requests, to object to the introduction into evidence of any document or portion thereof, and to supplement or amend its responses.

INTERROGATORIES

INTERROGATORY NO. 19:

State the date when Registrant started using the slogan "The Infrastructure Layer" in promotional materials or advertising for its goods and services and identify the persons involved the decision to adopt and commence use of the slogan for that purpose.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein.

Subject to, and without waiving the forgoing objections, Registrant answers as follows:

Registrant commenced use of the slogan "The Infrastructure Layer" in its promotional materials or advertising on or about June 25, 2009.

The persons involved in the decision to adopt and commence use of the term "The Infrastructure Layer" were Tony Walker, Lars Larsen, Laura Fradette and Anthony Giordano.

Mr. Walker and Mr. Larsen are employees of Ortronics, Inc., 125 Eugene O'Neill Drive, New London, Connecticut 06320. Mr. Giordano is also an employee of Ortronics, Inc., 60 Woodlawn

St., West Hartford, CT 06110. Ms. Fradette is a former employee of Ortronics, Inc. whose last known employer is ASSA ABLOY, 110 Sargent Drive, New Haven, CT 06511.

Registrant reserves its right to amend and/or supplement this response consistent with further investigation and discovery.

INTERROGATORY NO. 20:

Describe in detail how the process by which the slogan "The Infrastructure Layer" was created and identify the persons involved in creating the slogan.

Subject to, and without waiving the forgoing objections, Registrant answers as follows: RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein.

Subject to, and without waiving the forgoing objections, Registrant answers as follows:

The term "The Infrastructure Layer" was conceived during an internal strategy session on or around May 2008. The ISO/OSI network model divides the network communications process into 7 layers across network architecture. Layers 7 through 4 relate to end to end communications between data source and destinations. Layers 3 through 1 pertain to communications between network devices. Certain of Registrant's products, e.g., cablemanagement racks and cabinets, do not fall within any of the seven layers in the ISO/OSI network model even though these products can affect network communications performance and stability. Registrant created the slogan "The Infrastructure Layer" to emphasize the importance of these products to network communications. Registrant also created the slogan "The Infrastructure Layer" as a way to differentiate these products from other products marketed by Registrant that are a part of Layer 1 of the ISO/OSI network model, e.g., cables and connectors.

Though many people were present during the internal strategy session, the persons primarily involved in the creation of the term "The Infrastructure Layer" were Tony Walker, Lars Larsen, Laura Fradette and Anthony Giordano.

Registrant reserves its right to amend and/or supplement this response consistent with further investigation and discovery.

INTERROGATORY NO. 21:

Describe in detail all uses by Registrant of the slogan "The Infrastructure Layer" in connection with the goods and/or services of Registrant offered for sale and/or sold in connection with Registrant's Marks.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. In particular, Registrant objects to this Request on the grounds that identification of "all uses" is overly broad and unduly burdensome.

Subject to, and without waiving the forgoing objections, Registrant answers as follows:

Registrant has used the slogan "The Infrastructure Layer" in connection with its advertising,

promotional materials, social media, trade shows, sales presentations, customer presentations,
industry presentations, press releases and its website.

Registrant reserves its right to amend and/or supplement this response consistent with further investigation and discovery.

Respectfully submitted,

/s/ Mark D. Giarratana
Mark D. Giarratana
Shawn S. Smith
McCarter & English, LLP
185 Asylum Street
CityPlace I
Hartford, CT 06103
860.275.6700
860.724.3397 (fax)
mgiarratana@mccarter.com

Attorneys for Registrant Ortronics, Inc.

VERIFICATION

I, Tony Walker, being duly sworn, state that I am Director of Marketing for Ortronics,
Inc. and that the foregoing Responses and Objections to Petitioner's First Set of Interrogatories
are true and accurate to the best of my knowledge, information, and belief.

Pursuant to 28 U.S.C. § 1746, I declare under penalty of perjury that the foregoing is true and correct.

Executed on May 29, 2012.

Tony Walker

CERTIFICATE OF SERVICE

The undersigned hereby certifies that a copy of the foregoing was served on Petitioner

LayerZero Power Systems, Inc. on the date indicated below via e-mail to:

Raymond Rundelli, Esq.
Juliet P. Castrovinci, Esq.
CALFEE, HALTER & GRISWOLD LLP
The Calfee Building
1405 East Sixth Street
Cleveland, OH 44114-1607
rrundelli@calfee.com
jcastrovinci@calfee.com

Dated: May 29, 2012

/s/ Mark D. Giarratana Mark, D. Giarratana



EXHIBIT G

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE TRADEMARK TRIAL AND APPEAL BOARD

| in the Matter of Registration Nos.: For the Marks: Date of Issue: | 3,998,542 and 3,998,543 LAYER ZERO and LAYER 0 July 19, 2011 | | | |
|---|--|------|--|--|
| LAYERZERO POWER SYSTEMS, | INC.) | | | |
| Petitioner, |) Cancellation No.: 9205 | 4573 | | |
| ν. | | | | |
| ORTRONICS, INC., |). | | | |
| Registrant. | , | | | |

REGISTRANT'S RESPONSES AND OBJECTIONS TO PETITIONER'S SECOND SET OF REQUESTS FOR ADMISSION

Pursuant to Rules 26 and 36 of the Federal Rules of Civil Procedure and 37 C.F.R. 2.120, Registrant Ortronics, Inc. ("Registrant") hereby provides its responses and objections to the Second Set of Requests for Admission (collectively, the "Requests") proffered by Petitioner LayerZero Power Systems, Inc. ("Petitioner") on April 27, 2012. Registrant continues its investigation into the subject matter underlying this action, and it submits these responses and objections based only on its present knowledge and belief. Registrant reserves its right to amend and/or supplement its responses and objections to the Requests consistent with further investigation and discovery.

GENERAL OBJECTIONS

1. Registrant objects to the "Instructions and Definitions" and these Requests to the extent that they purport to impose upon it any obligation beyond that required by Federal Rules of Civil Procedure and/or the Rules of Trademark Practice in the U.S. Patent and Trademark Office.

MEI 13502073v.4



- 2. Registrant objects to these Requests to the extent they seek information that is neither relevant to the subject matter of the pending action nor reasonably calculated to lead to the discovery of admissible evidence.
- 3. Registrant objects to these Requests to the extent they seek the discovery of information subject to the attorney-client privilege or work-product doctrine, or other applicable privileges. The inadvertent disclosure of any communication covered by such protections shall not be deemed a waiver thereof.
- 4. To the extent that Registrant responds to these Requests, such responses should not be construed as a representation or admission that the information provided in the response is relevant or admissible at trial.
- 5. Registrant objects to each and every Request to the extent that the response may be derived or ascertained from records or other documents that are in the possession or control of Petitioner or from documents that are readily available to Petitioner in this proceeding. To the extent the response to a Request can be ascertained or derived from documents or information in Petitioner's possession, custody or control, the development of that response by Petitioner is significantly more convenient and less burdensome than it is for Registrant.
- 6. Registrant objects to each Request, including the "Instructions and Definitions" incorporated therein, to the extent that they are vague, indefinite, ambiguous, overbroad, unduly burdensome, not reasonably calculated to lead to the discovery of admissible evidence, unreasonably cumulative or duplicative, without temporal limitations, or seeks information that may be obtained from another source that is more convenient, less burdensome or less expensive.
- Registrant objects to any and all Requests that seek information that Registrant is required to maintain in confidence pursuant to an agreement or understanding with any third-

party or that otherwise are protected under contractual, constitutional, statutory, and/or common law rights of confidentiality or privacy.

- 8. Registrant objects to the extent that these Requests require Registrant to conduct anything other than a reasonable inquiry into the information requested, or to produce information not within Registrant's possession, custody, or control.
- 9. Registrant objects to the extent that any Request implies the existence of facts or circumstances not of record or that do not exist, and to the extent that any request assumes a legal conclusion. By responding, Registrant does not admit any factual or legal assumptions contained in any Request.
 - 10. Registrant objects to the extent that any Request calls for a legal conclusion.
- 11. Registrant objects to these Requests to the extent that they are compound and incorporate multiple Requests into a single Request.
- 12. Registrant object to these Requests to the extent that they seek information more properly obtained through other forms of discovery, such as depositions.
- 13. Registrant objects to the definition of "Communication" on the grounds that it is vague, ambiguous and subject to multiple interpretations.
- 14. Registrant objects to the definition of "Document" to the extent that it requires production of "draft[s] or non-identical cop[ies]" on the grounds that the production of such documents is unreasonably cumulative, unduly burdensome and is not reasonably calculated to lead to the discovery of admissible evidence.
- 15. Registrant objects to the definition of "Identify (With Respect to Persons)" on the grounds that it is overly broad, unduly burdensome and seeks information that is neither relevant nor reasonably calculated to lead to the discovery of admissible evidence.

- 16. Registrant objects to the definition of "Identify (With Respect to Documents)" on the grounds that it is overly broad, unduly burdensome and seeks information that is neither relevant nor reasonably calculated to lead to the discovery of admissible evidence.
- 17. Registrant objects to the definition of "affiliate" on the grounds that it is vague, ambiguous and/or susceptible to multiple interpretations, and to the extent it calls for a legal conclusion.
- 18. In responding to these Requests, Registrant does not waive the foregoing General Objections, nor does it waive the specific objections that are set forth in the responses to the individual Requests below. Registrant expressly reserves the right to object to further discovery into the subject matter of these Requests, to object to the introduction into evidence of any document or portion thereof, and to supplement or amend its responses.

REQUESTS FOR ADMISSION

REQUEST FOR ADMISSION NO. 10:

Admit that Registrant is an affiliate of Legrand France.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. Registrant further objects to this Request on the grounds that the term "Legrand France" is vague and indefinite. Registrant further objects to this Request on the grounds that it is not relevant to any claim or defense in this proceeding and is not reasonably calculated to lead to the discovery of admissible evidence. In addition, Registrant objects to this Request on the grounds that the term "affiliate" is vague, ambiguous and calls for a legal conclusion rather than an admission of fact.

Subject to, and without waiving the foregoing objections, Registrant is not aware of a legal entity named "Legrand France" and therefore denies.

REQUEST FOR ADMISSION NO. 11:

Admit that Registrant is an affiliate of Electrorack Products Company.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. Registrant further objects to this Request on the grounds that it is not relevant to any claim or defense in this proceeding and is not reasonably calculated to lead to the discovery of admissible evidence. In addition, Registrant objects to this Request on the grounds that the term "affiliate" is vague, ambiguous and calls for a legal conclusion rather than an admission of fact.

Subject to, and without waiving the foregoing objections, Registrant admits.

REQUEST FOR ADMISSION NO. 12:

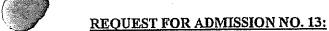
Admit that Legrand France is a provider of products and systems for electrical installations and information networks.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. Registrant further objects to this Request on the grounds that the term "Legrand France" is vague and indefinite. Registrant further objects to this Request on the grounds that it is not relevant to any claim or defense in this proceeding and is not reasonably calculated to lead to the discovery of admissible evidence. In addition, Registrant objects to this Request on the grounds that the terms "provider," "electrical installations," and "information networks" are vague, ambiguous and susceptible to multiple interpretations.

Subject to, and without waiving the foregoing objections, Registrant is not aware of a legal entity named "Legrand France" and therefore denies.





Admit that Electrorack Products Company is a manufacturer of products with application in the datacenter/IT market.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. Registrant further objects to this Request on the grounds that Electrorack Products Company is a third party, the term "datacenter/IT market" is vague, indefinite and susceptible to multiple interpretations, and the information necessary for Registrant to admit or deny this request is not available upon reasonable inquiry. Registrant further objects to this Request on the grounds that it is not relevant to any claim or defense in this proceeding and is not reasonably calculated to lead to the discovery of admissible evidence.

Registrant is unable to admit or deny this Request for the reasons stated in the objection.

REQUEST FOR ADMISSION NO. 14:

Admit that Electrorack Products Company is a manufacturer of products with application in the industrial/electronic market.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. Registrant further objects that this request is unduly broad. Registrant further objects to this Request on the grounds that Electrorack Products Company is a third party, the term "industrial/electronic market" is vague, indefinite and susceptible to multiple interpretations, and the information necessary for Registrant to admit or deny this request is not available upon reasonable inquiry. Registrant further objects to this Request on the grounds that it is not

relevant to any claim or defense in this proceeding and is not reasonably calculated to lead to the discovery of admissible evidence.

Registrant is unable to admit or deny this Request for the reasons stated in the objection.

REQUEST FOR ADMISSION NO. 15:

Admit that Electrorack Products Company is a manufacturer of products with application in the custom/OEM market.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. Registrant further objects to this Request on the grounds that Electrorack Products Company is a third party, the term "custom/OEM market" is vague, indefinite and susceptible to multiple interpretations, and the information necessary for Registrant to admit or deny this request is not available upon reasonable inquiry. Registrant further objects to this Request on the grounds that it is not relevant to any claim or defense in this proceeding and is not reasonably calculated to lead to the discovery of admissible evidence.

Registrant is unable to admit or deny this Request for the reasons stated in the objection.

REQUEST FOR ADMISSION NO. 16:

Admit that Electrorack Products Company is or has been a sponsor of the Uptime Institute Symposium.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. Registrant further objects to this Request on the grounds that Electrorack Products

Company is a third party and the information necessary for Registrant to admit or deny this

request is not available upon reasonable inquiry. Registrant further objects to this Request on the grounds that it is not relevant to any claim or defense in this proceeding and is not reasonably calculated to lead to the discovery of admissible evidence. In addition, Registrant objects to this Request on the grounds that it is not reasonably limited in time or scope.

Registrant is unable to admit or deny this Request for the reasons stated in the objection.

REQUEST FOR ADMISSION NO. 17:

Admit that Electrorack Products Company's products include racks, enclosures, power remote control and remote monitoring goods, power cords, power mounting, and power distribution units.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. Registrant also objects to this Request on the grounds that Electrorack Products Company is a third party, the terms "racks," "enclosures," "power remote control and remote monitoring goods," "power cords," "power mounting," and "power distribution units" are vague, indefinite and susceptible to multiple interpretations, and the information necessary for Registrant to admit or deny this request is not available upon reasonable inquiry. Registrant further objects to this Request on the grounds that it is not relevant to any claim or defense in this proceeding and is not reasonably calculated to lead to the discovery of admissible evidence. In addition, Registrant objects to this Request on the grounds that it is compound and contains multiple Requests that should be separately set-forth.

Registrant is unable to admit or deny this Request for the reasons stated in the objection.

REQUEST FOR ADMISSION NO. 18:

Admit that representatives of Legrand attended ABB Automation & Power World 2010.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. Registrant further objects to this Request on the grounds that it is not relevant to any claim or defense in this proceeding and is not reasonably calculated to lead to the discovery of admissible evidence. Registrant also objects to this Request on the grounds that "Legrand" is a third party, the terms "Legrand," "representatives" and "attended" are vague, ambiguous and/or susceptible to multiple interpretations, and the information necessary for Registrant to admit or deny this request is not available upon reasonable inquiry.

Subject to, and without waiving the foregoing objections, and to the extent that Registrant understands the meaning of the vague and undefined terms, Registrant denies that it or any of its employees attended ABB Automation & Power World 2010. Registrant is unable to admit or deny that "representatives of Legrand" attended ABB Automation & Power World 2010 for the reasons stated in the objection.

REQUEST FOR ADMISSION NO. 19:

Admit that Registrant has issued at least one press release in which it has been identified as "Legrand / Ortronics, a global leader in high performance network infrastructure solutions."

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. Registrant further objects to this Request on the grounds that it is not relevant to any claim or defense in this proceeding and is not reasonably calculated to lead to the discovery of

admissible evidence. In addition, Registrant objects to this Request on the grounds that it is not reasonably limited in time or scope.

Subject to, and without waiving the foregoing objections, Registrant admits.

REQUEST FOR ADMISSION NO. 20:

Admit that Registrant has issued at least one press release in which it has stated that at least some of its products are "ideal for data centers."

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. Registrant further objects to this Request on the grounds that it is not relevant to any claim or defense in this proceeding and is not reasonably calculated to lead to the discovery of admissible evidence. Registrant also objects to this Request on the grounds that it is vague and ambiguous. In addition, Registrant objects to this Request on the grounds that it is not reasonably limited in time or scope.

Subject to, and without waiving the foregoing objections, Registrant admits.

REQUEST FOR ADMISSION NO. 21:

Admit that Registrant is representing in promotional materials that "Layer Zero is the new foundation layer for the ISO / OSI model introduced by Legrand / Ortronics."

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. Registrant further objects to this Request on the grounds that it is not relevant to any claim or defense in this proceeding and is not reasonably calculated to lead to the discovery of admissible evidence.

Subject to, and without waiving the foregoing objections, Registrant admits.

REQUEST FOR ADMISSION NO. 22:

Admit that Registrant is representing in promotional materials that "Layer Zero encompasses the entire physical infrastructure that supports your network."

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. Registrant further objects to this Request on the grounds that it is not relevant to any claim or defense in this proceeding and is not reasonably calculated to lead to the discovery of admissible evidence.

Subject to, and without waiving the foregoing objections, Registrant admits.

REQUEST FOR ADMISSION NO. 23:

Admit that Registrant is representing in promotional materials that "Layer Zero encompasses the entire physical infrastructure that supports your network."

RESPONSE:

Registrant incorporates by reference its response to Request No. 22.

REQUEST FOR ADMISSION NO. 24:

Admit that Registrant is representing in promotional materials directed to the data center market that "Layer Zero encompasses the entire physical infrastructure that supports your network."

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. Registrant further objects to this Request on the grounds that it is not relevant to any

claim or defense in this proceeding and is not reasonably calculated to lead to the discovery of admissible evidence. Registrant also objects to this Request on the grounds that the term "data center market" is vague, indefinite and susceptible to multiple interpretations.

Registrant is unable to admit or deny this Request for the reasons stated in the objection.

REQUEST FOR ADMISSION NO. 25:

Admit that the physical infrastructure of a data center may include one or more of the following goods: electrical static transfer switches, electrical power distribution units, electrical integrated static transfer switch-power distribution unit systems, electrical remote power panels, and electrical remote distribution panels.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. Registrant further objects to this Request on the grounds that it is not relevant to any claim or defense in this proceeding and is not reasonably calculated to lead to the discovery of admissible evidence. In addition, Registrant objects to this Request on the ground that it is compound and contains multiple Requests that should be separately set-forth. Furthermore, Registrant objects to this Request on the grounds that it is vague and ambiguous, insofar as the term "physical infrastructure" is vague, indefinite and susceptible to multiple interpretations.

Registrant is unable to admit or deny this Request for the reasons stated in the objection.

REQUEST FOR ADMISSION NO. 26:

Admit that Registrant is "is a verified cabinet vendor for the Cisco Nexus 7010 and 7018 data center switches."

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RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. Registrant further objects to this Request on the grounds that it is not relevant to any claim or defense in this proceeding and is not reasonably calculated to lead to the discovery of admissible evidence.

Subject to, and without waiving the foregoing objections, Registrant admits.

REQUEST FOR ADMISSION NO. 27:

Admit that Registrant or an affiliate thereof is the registered owner of one or more of the following domain names: layerzero.us; layerzero.info; layerzerosolutions:us; layerzerosolutions.com; layer0.us.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. Registrant further objects to this Request on the grounds that it is not relevant to any claim or defense in this proceeding and is not reasonably calculated to lead to the discovery of admissible evidence. In addition, Registrant objects to this Request on the grounds that the term "affiliate" is vague, ambiguous and calls for a legal conclusion rather than an admission of fact.

Subject to, and without waiving the foregoing objections, Registrant admits.

REQUEST FOR ADMISSION NO. 28:

Admit that the domain names layerzero.us; layerzero.info; layerzerosolutions.us; layerzerosolutions.com; layer0.us redirect to legrand.us/ortronics.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein. Registrant further objects to this Request on the grounds that it is not relevant to any claim or defense in this proceeding and is not reasonably calculated to lead to the discovery of admissible evidence.

Subject to, and without waiving the foregoing objections, Registrant admits.

REQUEST FOR ADMISSION NO. 29:

Admit that the document entitled "Layer ZeroTM for the data center" and attached hereto as Rider 29 is a true and correct copy of promotional material for Registrant's products.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein.

Subject to, and without waiving the foregoing objections, Registrant admits that the document attached as Rider 29 appears to be a true and correct copy of Registrant's "Layer ZeroTM for the data center" brochure.

REQUEST FOR ADMISSION NO. 29:

Admit that the document entitled "Encyclopedia Layer Zero" and attached hereto as Rider 30 is a true and correct copy of promotional material for Registrant's products.

RESPONSE:

Registrant incorporates its General Objections set-forth above as though fully set-forth herein.

Subject to, and without waiving the foregoing objections, Registrant admits that the document attached as Rider 30 appears to be a true and correct copy of Registrant's "Encyclopedia Layer Zero" brochure.

Dated: June 5, 2012

Respectfully submitted,

/s/ Mark D. Giarratana
Mark D. Giarratana
Shawn S. Smith
McCarter & English, LLP
185 Asylum Street
CityPlace I
Hartford, CT 06103
860.275.6700
860.724.3397 (fax)
mgiarratana@mccarter.com

Attorneys for Registrant Ortronics, Inc.

CERTIFICATE OF SERVICE

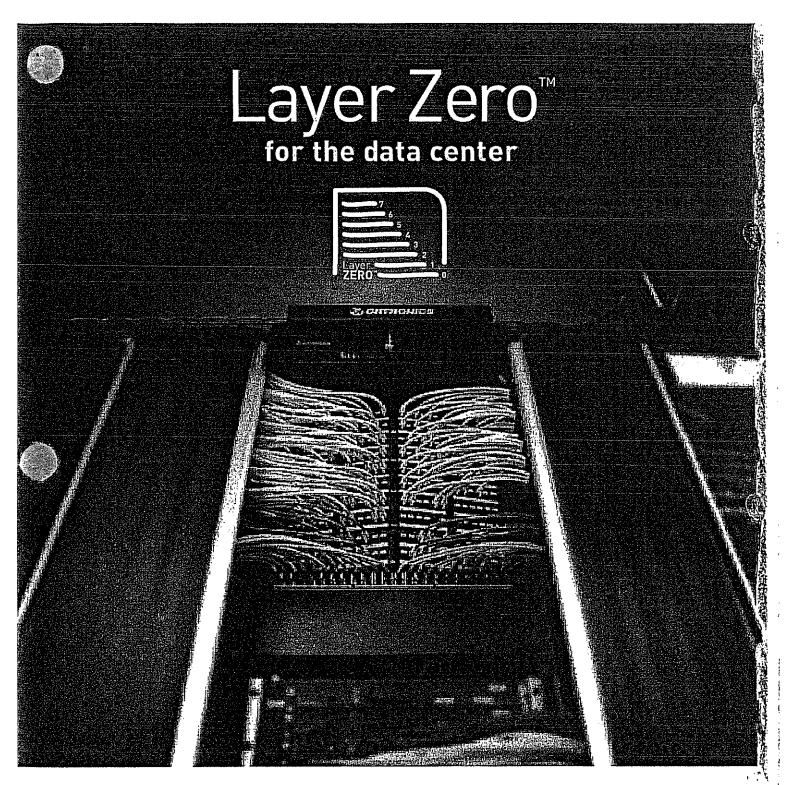
The undersigned hereby certifies that a copy of the foregoing was served on Petitioner

LayerZero Power Systems, Inc. on the date indicated below via e-mail to:

Raymond Rundelli, Esq.
Juliet P. Castrovinci, Esq.
CALFEE, HALTER & GRISWOLD LLP
The Calfee Building
1405 East Sixth Street
Cleveland, OH 44114-1607
rrundelli@calfee.com
jcastrovinci@calfee.com

Dated: June 5, 2012

/s/ Mark D. Giarratana Mark. D. Giarratana





Ortronics

RIDER 29
PETITIONER'S SECOND SET OF
REQUESTS FOR ADMISSION

FOR HE

Data centers are the foundations

of enterprises, vital to the

simply store data. Virtualization,

organization - they no longer daily operation of the entire

computing systems and cloud

smart buildings, unified

to make the data center the

computing have combined

neural hub of the company.

Consequently, networks require

capacity and more in-depth

greater security, storage

processing to support their

expanded roles.

the Infrastructure ayer, stabilizes ayer Zero" the network

del, addresses the critical need for superior physical intrastructure to end communications between data source and destinations. Layers Layer Zero, the proposed infrastructure Layer for the ISO/DSI Network layers across network architecture. Layers 7 through 4 relate to end he ISU/USI model divides the network communications process into 2 through 1 pertain to communications between natwork devices. nort in the data center.

emphasizing best practicas in palitway and physical support design, By recognizing the importance of the underlying infrastructure layer supports your network, including racins, cabinets, advanced cable Syer Zero solutions encompass the entire physical infrastructure nagement, pathway salutions, underfloor and overhead systems. new level of stability can be created for the network.

OPPORTUNITIES FOR THE DATA CENTER

dealign to ensure next yeneration technology compatibility, anothe provides a comprehensive approach to the physical infrastructure with the introduction of Layer Zero solutions. 行いは言葉はている 一年をあるからしている ちていれ

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AIRFLOW

Excessive heat is the primary enemy of most nelworking equipment.

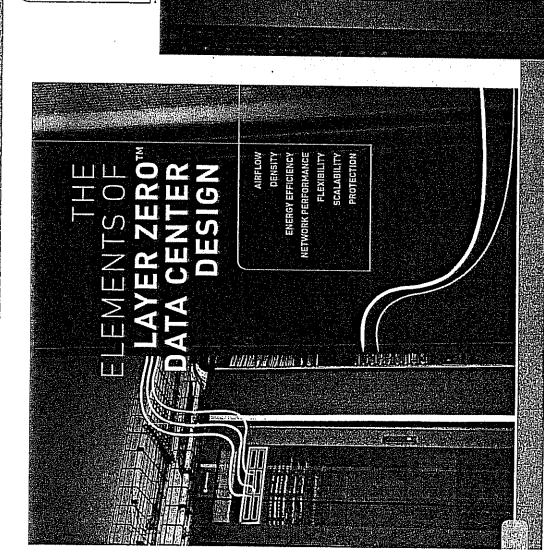
spots are lundamental challenges for data center managera, thraeten-ing the life span of network equip-

cal infrastructure design phase in that can contribute to equipment best practices during the physifailure. It is critical to establish

entions manage hast and airthe leverage the natural properties of hot and cold air to ensure proper across the entire network. They Layer Zero^{IM} Infractructure ment if left unmanaged.

management

venillation and allaviate the heat order to Improve everall thermal



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大きなのでは、 ここの なるとう

DENSITY

As chip pawer increases and output are concentraled lo smaller areas, requirements and heal density capacity rises, power

ficiency of conventional air conditioning costs up by dramatically driving the efsingle rack to 20kW or higher. Such an increase of power, without an increase The density demands of virtualization, increase the power consumption of a convergence and consolidation can of CRAC capacity, can drive energy systems down.

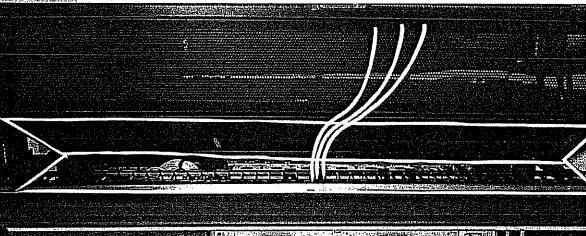
nets and racks have ample space and static capacity for the latest switching thermal management to balance the for higher dansity equipment. Cabiadditional toad,

EFFICIENCY ENERGY

energy efficient way to manage airflow and thermal lands in the Passiva coaling is the most deta center.

tional power consumption at fans reducts the power load by creating Lower the septions com tempera ture without introducing the add decreases the power land at the some of the reduced power load same time. Power assisted fans better airfiow management, yet Adding fans heth increases and is diverted to the fans, thereby reducing the overall savings.

Product innovations re-direct slds utant het aksis / cold skale configu support systems use completely renting equipment into the stanration and relatorus the effective Legrand | Ortronics physical paraire thermal management to increase airflow efficiency. ness of the able separation.



network real estate by accommodating equipment while implementing passive Layer Zero solutions help optimize

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ISE MALE UN EIGH

PERFERENCE MELMORE

(t is critical to the network to minimize signal loss to maximize system performance. lowing too much force to be exerted on the cables can negatively impact

Excessive bending, kinking or al-

ethernet network performance. A

switch loaded with inadequately the parts over time. The cast of

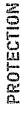


SCALABILITY

infrastructure solutions that reproduced, without disrupling Data centors require can be quickly and seamlessly the flaw of business.



The faster new equipment can be deployed and brought online, the greater the cost savings to the network manager.

ness needs with ease and still he able to support future expansions in a creating major disruptions. Solutions can be designed for current fassi-Layer Zero solutions are scalable, able to facilitate growth without timely and cost effective way. 

Protecting the network means



Replacing a damaged switch card is

a costly and preventable event.

Layer Zero infrastructure prod-

ucts protect network performance

equipment port cannot be repaired.

is negligible, but a single damaged

replacing an individual palch cord managed patch cords can damage

network equipment. By maintaining the integrity of the equipment, Layer

Zero solutions are able to help reduce capital expenditures.

by praviding proper support for

securing all elements, not just switches and servers.



will support technology demands from the physical layer.

> requires an infrastructure that is agile and can adapt to changing

Effective space utilization

environmental conditions.

FLEXIBILITY

ture assures a flexible physical design that

A well thought out Layer Zero infrastruc-

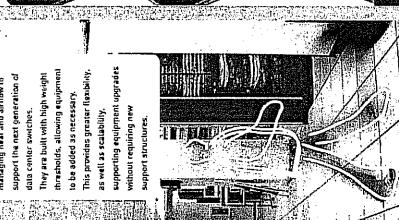
justed even after installation, mitigating the your specific installation. They can be ad-Ortronics* solutions are fully modular and are configurable to suit the needs of impact of MAC work. Ortranics solutions connectivity, as well as heavy equipment. are optimized for copper and fiber optic

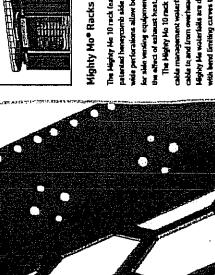
Layer Zero solutions offer a comprehensive way to protect your

a Protecting network performance by safeguarding the integrity of the cables # Physical security, such as preventing unauthorized access to servers Monitoring current for power surges and lemperature for hot spots

Each product integrates with each other, creating a unified system that provides camplete protection from threats to your network.

higher density applications such thresholds, allowing equipment supporting equipment upgrades Highty Mot racks and cabinels as data centers. Each has been This provides greater liexibility, They are built with high weight support the next generation of managing heat and airliow to are specifically designed for uniquely designed for above the standards performance, to be added as necessary. without requiring new data contar switches. as well as scalability. support structures.







for side versing equipment, mitigating the effect of exhaust heat. wide perforations allow better airflow patiented heneycomb side rulls. The The Highly Ho 10 reck features

The Highry Ho 10 rack is built with The frame is constructed of 14 GA cable management waterfalls to route cable to and from overhead trays. The steet and aluminum with a 1,500 lb with bend limiting curves to ensure Highly Me waterfalls are designed that cable are property supported.



RAMINE STORENINE S



Mighty Mo Cabinets

assembled, built to spec with yeur se-tected mounting raits, doors, panels customized. The cabinet arrives fully 7010 and 7018 data center switches. cabinet version for the Cisco Necue Highty Ma cabinets can be fully Legrand | Ortronics is a verified and accussionless installed.

and in the track for server equipment. load capacity to support the demands cable openings, pathways and management where they are needed; in the frost for networking equipment The frame has a 2,000 lb stade The frame is designed to mule



Cable Management Highty №

still increasing cooling efficiency. to erganize patch cords vertically Highly No cable managers allow patch cords per rack unit, while up to 48 Calegory 6A or 6 patch cable managers extend beyond side, reducing stress on switch Deeper cable charmels provide capacity, Ontronics® Highly Ho corets per rack unit on a single cable managers are epitmized finger design that encourages at incihidual patch cords. The the face of the switch to create a sensother bend radius as the ports.These features organiza and horizonally, with a larger cable built and aflow for more defined and traceable routing paich cords are routed to the ample morn far cables, even when the switch is loaded to side of the rack or cabinet.



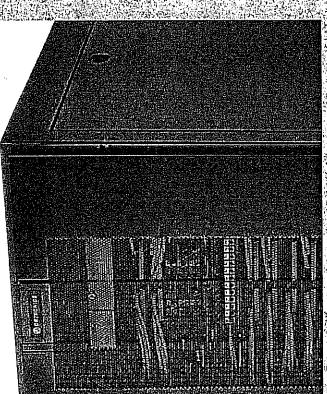
system, maximize the airflow of to the hot aiste more effectively. exhaust air from the cold bisla the Highly Ho cabinet or rack The tadfles, combined with

The state of the s

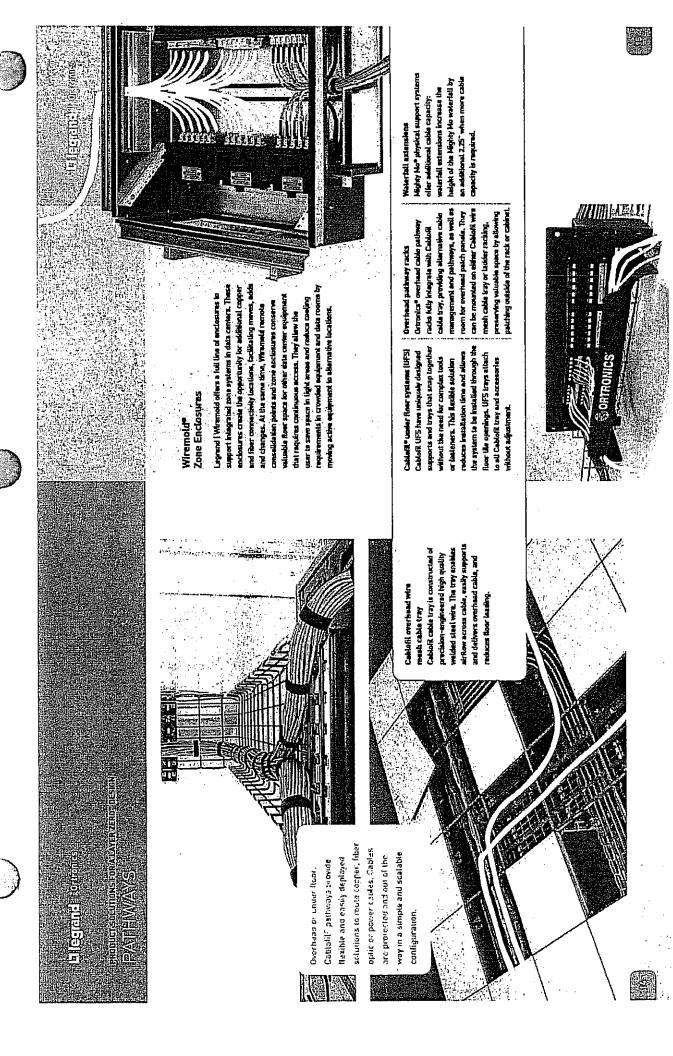


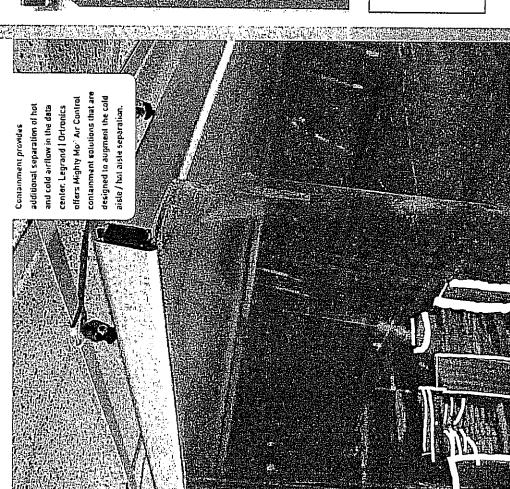
of high density applications.

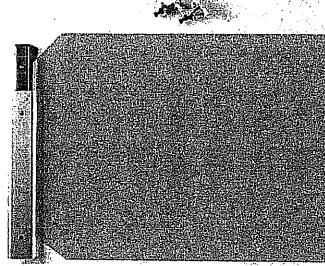








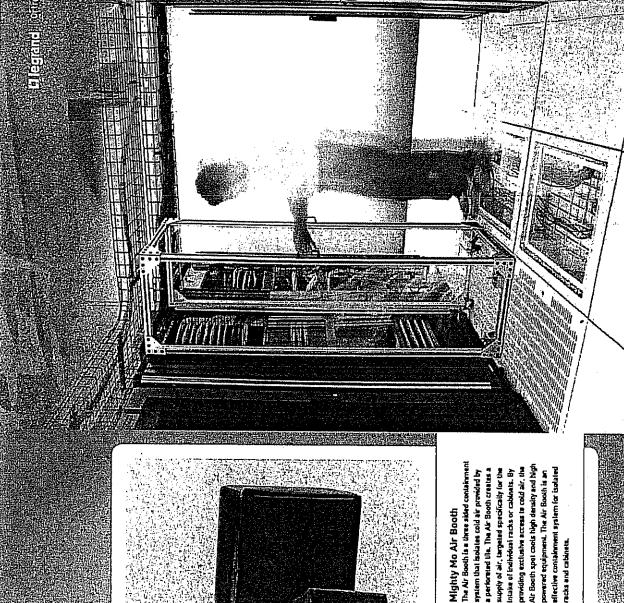




Mighty Mo® Air Curtain Air Curtains separate hot and coid airllow with drop-ceiling Can be customized to address any able set-up, including cityscapes. mounted partitions. The partitions form a containment rectangle around the aiste and



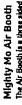
Mighty Ho Air Cap.
The Air Cap is a flat, retractable mod system that altaches to the top of racts and cabinats to form a ceiling that prevents hot and cold air from making. The roof is designed. to retract into the metal cassatte



To (ALth openities in your data deriver. As plugs are sale to use anound:

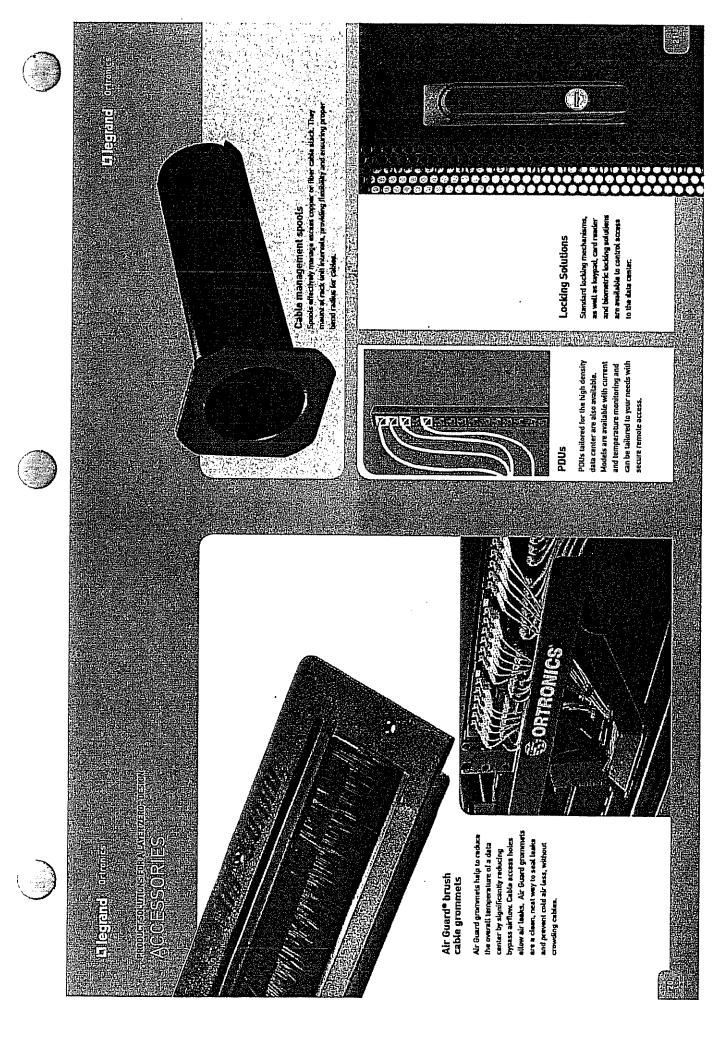
all types at colouing horizoning finecould colour the plugs come in
several shortand stress that will coverany opening Trequirie. The play is cold, flexible and make of Sandal, is cold, flexible and make of Sandal, is frequent frequestable that uses sain as the photostal figuration. Air Plugs are the most afficient way

FAILE VIEW



Air Booth spot cools high density and high system that isolates cold air provided by supply of air, targeted specifically for the intake of individual racks or cabinets. By providing exclusive access to cold air, the powered equipment. The Air Booth is an effective containment system for isolated a perforated tile. The Air Booth creates a racks and cabinets.





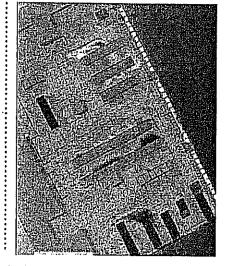
PARTNERSHIPS



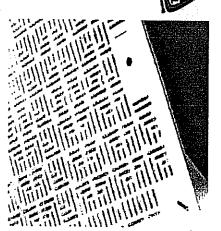
Cisco Technology Development Partner

their existing network investment. By customers get even more value from The Developer Network helps Cisco creating an acceptant of third party developers, it exponentially expands complementary solutions to support Claco's powerful network platform. for contomers taking advantage of Developer Network Program. The pertner relationship signifies that new business solutions available Legitarid | Ortenics is a Solution Legrand | Ortrovice collaborates with Cisco to design and develop Claco hardware and technology. the mumber and quality of elett, Developer Partner in the Cisco

ALLIANCES

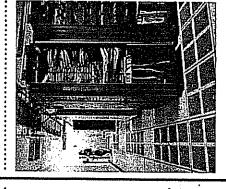


Ortronics® Computational Fluid Dynamics (CFD)
Design Services powered by SubZero Engineering
CFD analysis is used to identify ways to decrease energy usage
and increase cooling efficiency. CFD simulations provide you with
an excurate computer model of the airflow in your data center.
CFD simulations can also provide insight and guidance in
reconfiguring stating facilities with the goal of optimizing
the biGlit's cooling system.

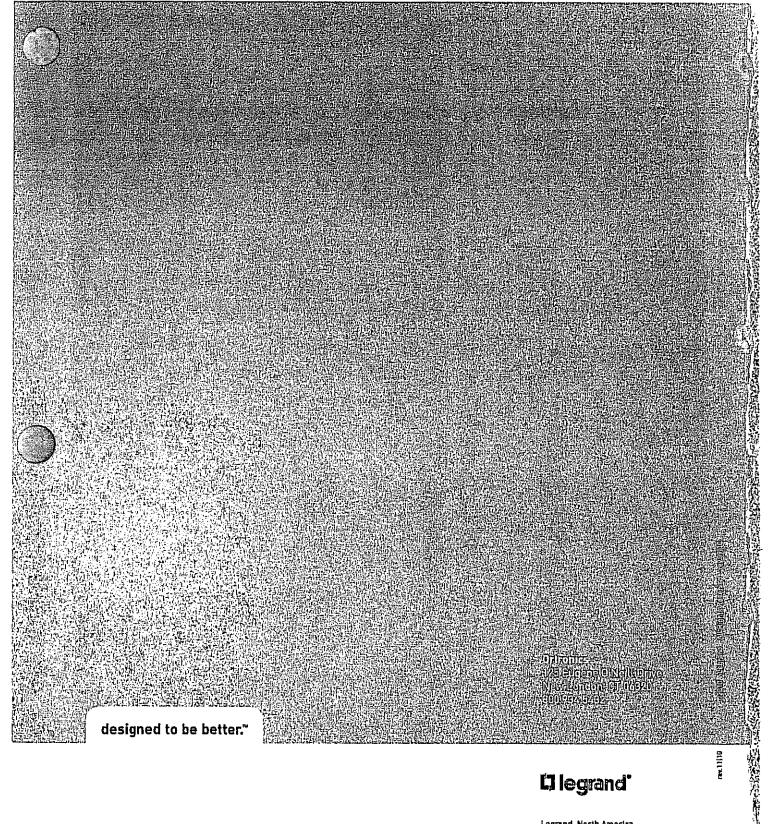


Triad River Cooling System™ tiles

Triad high density airflow bies are optimized for side-to-side cooling and designed to work in concert with the Mighty Me* ractor and cabinate. Triad likes improve cooling at the top at the ract or cobinet and dispersa air offercity into the switch or server through the intake side of the Mighty Mo solution. The use of Triad bies, together with the Mighty Mo safflow believe addition. In more through the cooling of the Mighty Mo safflow believes the supply also self-carry? QUES returns. Althou believes the supply air temperature and the temperatures at the top of the ract. Lower ALE values militaries coil air less, tests.



NetClear® cabling solutions NetClear cabing systems are co-engineered layer one network infrastructures actualizes from Berk-Tek and Lagrand I Ostronics and are designed as meet the needs of the most decisional data centers. NetClear cabing systems ensure full network and application arealability by providing notate, bid performance channels. The are engineered to provide unparallaled reliability for networks rowning et 100 MMs to 100 GMs.

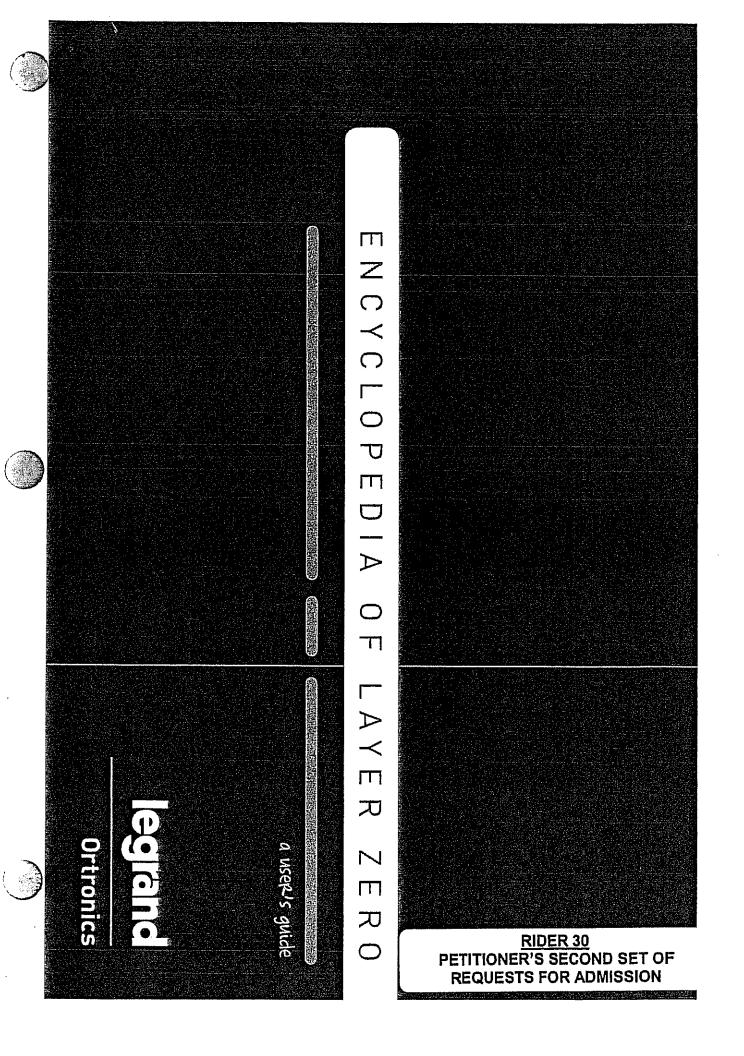


[] legrand

Legrand, North America

60 Woodlawn Street West Hartford, CT 06110 1.877.BY.LEGRANO (295,3472) www.legrand.us

570 Applewood Crescent Yaughan, Ontario LAK 4B4 905.738.9195 www.legrand.ca



RATIONAL CONTROL CONTR C CONTRACTOR OF THE PROPERTY O

_ayer Zero™

lay•er ze•ro \ lā-er zir-ō\

Layer Zero is the new foundation layer for the ISO/OSI model introduced by Legrand | Ortronics. Layer Zero - the Infrastructure Layer - addresses the critical role that the physical infrastructure

plays in network performance. A new level of stability is introduced to the network by recognizing the importance of the underlying layer and emphasizing best practices in pathway and

physical support design. Layer Zero encompasses the entire physical infrastructure that supports your network: not only racks and cabinets with advanced cable management, but underfloor and overhead systems, pathways solutions and more.

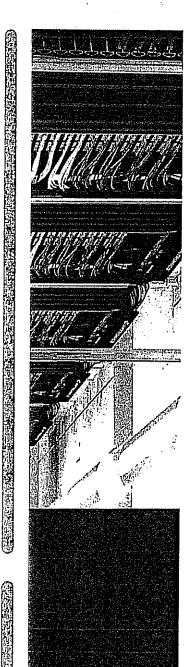
APPLICATION LAVER INTERMEDIA 7
PRESENTATION LAVER INTERMEDIA 6
SECSION LAVER INTERMEDIA 6
SECSION LAVER INTERMEDIA 6
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HENDORI LAVER INTERMEDIA 6
HENDORI LAVER INTERMEDIA 6
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INFRASTRUCTURE LAYER
INFRASTRUCTURE LAYER
INFRASTRUCTURE LAYER

layer zero
entire physical
infrastructure
that supports
your network.



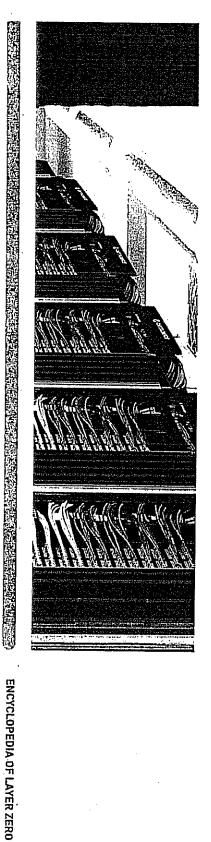
ENCYCLOPEDIA OF LAYER ZERO

while providing significant energy savings. reducing the risk of equipment failure and enhancing system performance, all effect on the system by lowering the overall temperature in the data center, maximize network performance in a data center, commercial office, healthcare facility or educational institution. Layer Zero solutions can have a dramatic The innovative Layer Zero™ approach to physical infrastructure solutions can



hot spot challenges

One of the most popular attempts to address hot spots is to spread the density load throughout the data center. The expectation is that by scattering the higher heat producing racks throughout the room, high temperatures won't congregate in one spot. However, the dynamic allocation of server loads means those loads, as well as their physical location, change over time. Much of the predictability for higher cooling needs is lost in this environment.



a solution

that works room, choose a physical infrastructure that Instead of spreading the load throughout the server room. allows high density racks to maintain proper temperature regardless of their location in the

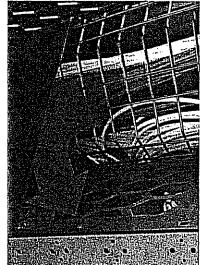
per-formance and create energy savings proper layer Zero solutions maximize

ENCYCLOPEDIA OF LAYER ZERO

AVER ZERO™? VEED FOR

densities, creating a need for better performance, better applications such as POS and medical imaging and to cooling and more flexibility. with increased loads, higher temperatures and higher demands strain the existing physical infrastructure comply with HIPAA and Sarbanes Oxley. These increased more in depth processing to support the demands of must have greater security, storage capacity and connectivity. Systems are being called on to support on network hardware, software, bandwidth and in technology are placing an even greater burden Facebook®, Hulu®, Netflix® and ecommerce. Networks more media rich, higher bandwidth applications such as to handle is growing at exponential rates. Advances The amount of data that networks are being designated

cool air in





hot air out

WHERE'S THE RELIET! increased loads, higher temperatures, higher densities

for your network the building blocks

usage has increased before: the average kW Today's networks are they never have been being taxed in ways from 1 – 2 kW for a normal

density rack to over 20 kW used by some high density racks

correspondingly greater amount of heat These increased densities generate a

down the efficiency of conventional air conditioning systems. driving up electrical costs by dramatically driving

demands without being forced to reconfigure their entire cooling system. Network managers need to be able to integrate the greater network

and cold air affects the entire network realizing how the distribution of hot

the green grid

servers tend to be grouped in ways that create hot spots. - The Impact of Virtualization on a Data Center Physical Infrastructure, THE GREEN GRID utilization and power consumption levels. Virtualized Virtualization means each server is running at higher

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YOUR

ENCYCLOPEDIA OF LAYER ZERO

ENCYCLOPEDIA OF LAYER ZERO

ADDS TO THE

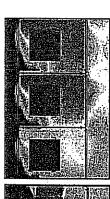
LAYER ZERO

Layer Zero" solutions can lower a customer's energy costs for cooling switches by 60%.

Passive cooling,
proper airflow and
cable management
can allow an increase
to the overall ambient
temperature threshold
by up to 15°.

Every 1º increase in set point
—
4% savings in energy costs

15° x 4% = 60% savings



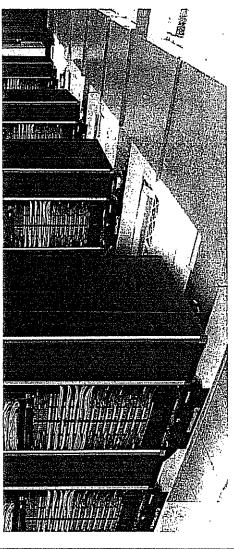
The first two examples show hot and cold air mixing at the intake with exhaust temperatures reaching the

In a Legrand (Ortronics study, the Mighty Mo® cabinet with airflow baffles reduced the exhaust temperature by 20°. The intake air only

needed to be cooled to 55°F.

ambient temperature threshold to be raised by 15°F.

lower exhaust temperature. This reduction allowed the The alternative rack system needed intake air cooled to 40°F to generate the same



shape the effectiveness of your network. Managing these Legrand | Ortronics has identified 7 key elements that

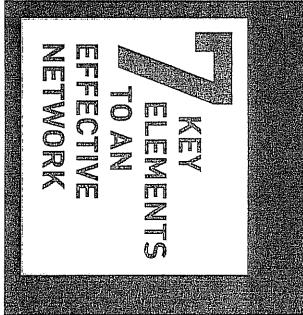
7 elements will maximize your network's potential. more efficient

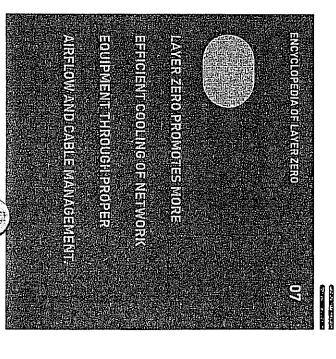
cooling of network

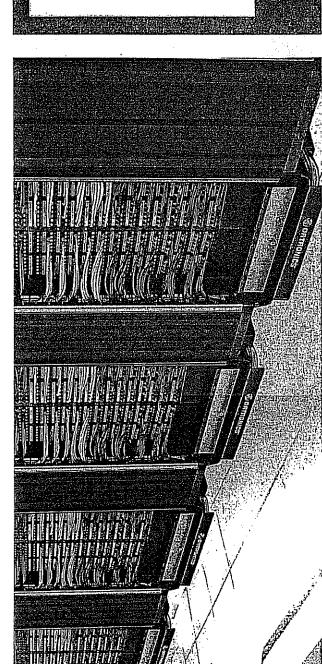


With the right planning, the defining elements of capacity, density, efficiency and scalability can be aligned through the infrastructure. One basic best practice: adopt the rack as the basic building block for data center density. – Energy Efficient Data Center Solutions and Best Practices, CISCO

Ortronics is a solution developer partner within the Cisco Developer Network Program.



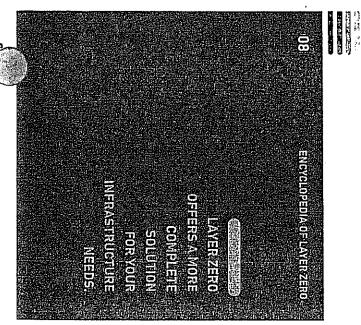




airflow management

Heat exhaust and hot spots are better managed using a passive cooling design, ensuring proper airflow and protecting equipment with better ventilation.

Layer Zero" infrastructure solutions manage heat across the entire network. Honeycomb side rails allows for better equipment ventilation; airflow baffles isolate cold aisle and hot aisle air more effectively; wire mesh cable trays promote air circulation.





density

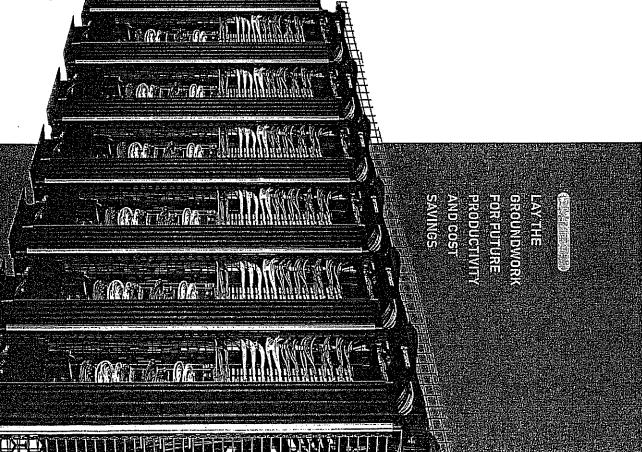
Higher density drives up energy costs because it dramatically drives down the efficiency of conventional air conditioning systems. Density demands of virtualization, convergence and consolidation require greater support.

Layer Zero can help you optimize your network real estate by organizing cable bulk, allowing for more patch cords per rack unit, white still increasing cooling. We allow up to 48 patch cords per unit on a single side of the equipment, with deeper cable channels providing ample room even when the switch is loaded to capacity.

energy efficiency

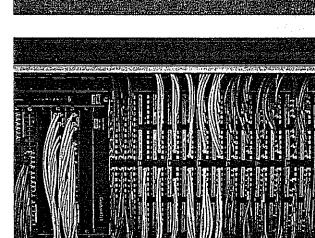
True passive thermal management: cooling without fans - not introducing any additional power requirements.

Mighty Mo® racks and cabinets use passive cooling to lower equipment temperatures. Airflow baffles and honeycomb sides isolate and direct intake and exhaust air without introducing the additional energy consumption of fans.





THE WAY YOUR RUNGING THE WAY YOUR AT YOUR RUNG WATER





Maximize network
performance by
minimizing signal loss
due to improper cable
support; eliminate
hot spots that cause
network failure and
provide proper support
for network equipment.

Our cable management optimizes cable support and patch cord routing.

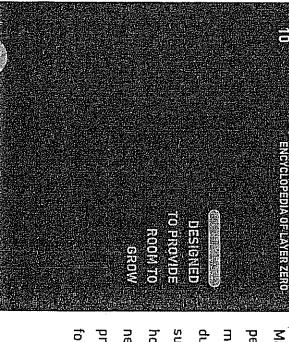
Bend limiting clips ensure proper bend radius; large fingers and deeper channels are recessed flush with the face of the switch to prevent strain on the cables.

technology demands to make physical layer: a well thought out Layer Zero" infrastructure enables MAC work to have a minimal impact.

Assure a flexible p

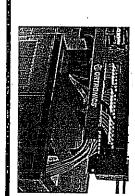
design that will sup

Our infrastructure solutions can be adjusted even after installation. They are optimized for copper and fiber connectivity and heavy equipment. They are fully modular and are configurable to suit the needs of your specific installation.



scalability

Layer ZeroTH solutions



support fast and seamless adaptations to changing business requirements, facilitating growth without major disruptions.

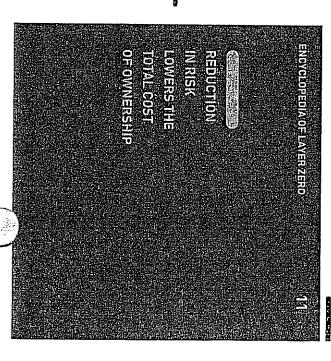
Mighty Mo® racks and cabinets are built with higher weight thresholds, allowing equipment to be added as necessary. Our overhead cable pathway racks fully integrate with Cablofil® cable trays, providing alternative cable pathways, as well as room for additional patch panels. Mighty Mo systems offer additional cable capacity with larger cable channels, vertical managers and waterfall extensions.

protection

Protect customer investment by reducing the risk of equipment failure at all points of the infrastructure: airflow management, thermal management and cable management. Reduction in risk lowers the total cost of ownership.

Protecting the network means safeguarding all elements, not just switches and cables. Wire mesh cable trays enable airflow across cable while removing it from harm. Extended vertical managers create smoother bend radiuses, reducing stress on switch ports.







The expertise of Legrand | Ortronics in layer one technology enables the development of superior infrastructure solutions for Layer ZeroTM. These solutions combine knowledge of customer requirements with insightful product design to leverage gains across the entire network. The right equipment at Layer Zero will address the key factors of airflow, density, protection and performance while also providing significant energy savings.



Ortronics is a solution developer partner within the Cisco Developer Network Program.

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Fax: 860.405.2992
www.legrand.us/ortronics

designed to be better.

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Fax: 1.860.232.2062
www.legrand.us

570 Applewood Crescent Vaughan, Ontario L4K 4B4 Phone: 905.738.9195 Fax: 905.738.9721 www.legrand.ca

Exhibit H - part 1 of 2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE TRADEMARK TRIAL AND APPEAL BOARD

| In the Matter of Registration Nos.: For the Marks: | 3,998,542 and 3,998,543 LAYER ZERO and LAYER 0 |
|---|---|
| Date of Issue: | July 19, 2011 |
| LAYERZERO POWER SYSTEMS, | INC.) |
| Petitioner, |) Cancellation No.: 92054573 |
| v. |)) |
| ORTRONICS, INC., |) |
| Registrant, |) |

REGISTRANT'S SUPPLEMENTAL AND AMENDED RESPONSES TO PETITIONER'S FIRST SET OF INTERROGATORIES (Nos. 3, 5, 6, 7, 15 and 16)

Pursuant to Rules 26 and 33 of the Federal Rules of Civil Procedure and 37 C.F.R. 2.120, Registrant Ortronics, Inc. ("Registrant") submits the following supplemental and amended responses ("Supplemental Responses") to the First Set of Interrogatories (collectively, the "Requests") proffered by Petitioner LayerZero Power Systems, Inc. ("Petitioner") on March 20, 2012. Registrant continues its investigation into the subject matter underlying this action, and it submits these responses and objections based only on its present knowledge and belief. Registrant reserves its right to amend and/or supplement its responses and objections to the Requests consistent with further investigation and discovery.

GENERAL OBJECTIONS

Registrant reasserts and maintains the General Objections asserted in its initial Responses and Objections to Petitioner's First Set of Interrogatories, dated May 3, 2012 ("Initial Responses and Objections"). The General Objections are incorporated into each and every Supplemental Response below as though fully set-forth therein.



INTERROGATORIES

INTERROGATORY NO. 3

Identify by common industry product description each product currently offered by

Registrant other than for equipment for voice and data communications systems, namely, cable

management racks and cabinets for copper and fiber optic data cables for structured cabling systems.

SUPPLEMENTAL RESPONSE:

Registrant reasserts and maintains the objections previously asserted in its Initial Responses and Objections.

Subject to, and without waiving the foregoing objections, Registrant supplements its response as follows: Registrant directs Petitioner to Registrant's current catalog, specifically Bates Nos. ORTR001017-ORTR001201, produced herewith. Registrant reserves its right to amend and/or supplement this Supplemental Response consistent with further investigation and discovery.

INTERROGATORY NO. 5

Identify all customers to whom Registrant has sold any of the goods identified in U.S. Trademark Registration No. 3,998,542.

SUPPLEMENTAL RESPONSE:

Registrant reasserts and maintains the objections previously asserted in its Initial Responses and Objections.

Subject to, and without waiving the foregoing objections, Registrant supplements its response as follows: Registrant directs Petitioner to <u>Exhibit A</u> attached hereto, which has been designated as "Attorneys' Eyes Only –Trade Secret/Commercially Sensitive" pursuant to the Protective Order approved by the Board on April 26, 2012.



Registrant reserves its right to amend and/or supplement this Supplemental Response consistent with further investigation and discovery.

INTERROGATORY NO. 6

Identify all customers to whom Registrant has sold any of the goods identified in U.S. Trademark Registration No. 3,998,543.

SUPPLEMENTAL RESPONSE:

Registrant reasserts and maintains the objections previously asserted in its Initial Responses and Objections.

Subject to, and without waiving the foregoing objections, Registrant supplements its response as follows: Registrant directs Petitioner to Exhibit A attached hereto, which has been designated as "Attorneys' Eyes Only –Trade Secret/Commercially Sensitive" pursuant to the Protective Order approved by the Board on April 26, 2012.

Registrant reserves its right to amend and/or supplement this Supplemental Response consistent with further investigation and discovery.

INTERROGATORY NO. 7

Identify all customers to whom Registrant has sold any goods other than those identified in U.S. Trademark Registration Nos. 3,998,542 and 3,998,543.

SUPPLEMENTAL RESPONSE:

Registrant reasserts and maintains the objections previously asserted in its Initial Responses and Objections.

Subject to, and without waiving the foregoing objections, Registrant supplements its response as follows: Registrant directs Petitioner to Exhibit A attached hereto, which has been designated as "Attorneys' Eyes Only—Trade Secret/Commercially Sensitive" pursuant to the Protective Order approved by the Board on April 26, 2012.



Registrant reserves its right to amend and/or supplement this Supplemental Response consistent with further investigation and discovery.

INTERROGATORY NO. 15

State the factual basis of Registrant's third affirmative defense in Registrant's Answer to Petition for Cancellation.

SUPPLEMENTAL RESPONSE:

Registrant reasserts and maintains the objections previously asserted in its Initial
Responses and Objections. Subject to, and without waiving the foregoing objections, Registrant supplements its response as follows:

In 2001, Petitioner field U.S. trademark application Serial No. 78/069,664 ("the '664 application) in the U.S. Patent & Trademark Office ("PTO") asserting a bona fide intention to use the mark LAYERZERO POWER SYSTEMS in connection with (i) the following goods: "Power Transfer Switch; Electronic Power Conditioner; Uninterruptible Power System; Stand-by Power Systems"; and (ii) the following services: "Power Quality Audit Service; Commissioning, Service and Repair of Critical Uninterruptible Power Systems Equipment." Then, on or about February 13, 2002, Petitioner expressly abandoned its '664 application with respect to goods (i.e., with respect to power transfer switches, electronic power conditioners, uninterruptible power systems and stand-by power systems), thus indicating that it no longer had a bona fide intention to use or register the mark in connection with such goods. Thereafter, the '664 application matured into U.S. Trademark Reg. No. 2,639,669 ("the '669 registration") covering only the following services: "power quality analysis in the nature of diagnosing power quality and providing recommendations and power quality products for the enhancement of power protection."

Petitioner maintained the '669 registration until May 2009 during which period Petitioner did not seek to register the mark LAYERZERO POWER SYSTEMS for any of the goods that were expressly abandoned from its '664 application or for any other goods. Petitioner then intentionally cancelled its '669 registration on May 30, 2009 by not filing a declaration of continued use in connection with the services of the '669 registration.

Accordingly, from February 2002 through May 2009, Petitioner indicated and thus lead the public to believe that its rights in the LAYERZERO POWER SYSTEMS mark were limited to the services recited in the '669 registration and that it had no intention to use, and did not use the mark in connection with the goods identified in the '664 application. Further, when Petitioner cancelled its '669 registration, it indicated and thus lead the public to believe that it had not, and was not using the LAYERZERO POWER SYSTEMS mark in connection with the services identified in the '669 registration.

Registrant reasonably relied on Petitioner's statements and actions between 2001 and 2009 in connection with its LAYERZERO POWER SYSTEMS mark, including without limitation those statements and actions indicating that Petitioner did not have a bona fide intention to use the LAYERZERO POWER SYSTEMS mark in connection with goods, and in fact, was not using the mark in connection with the goods identified in the '664 application or similar goods. On September 26, 2008, Registrant filed application serial nos. 77/580,391 and 77/580,392 ("the '391 and '392 applications") asserting its bona fide intent to register the marks LAYER ZERO and LAYER 0 for the following goods: "equipment for voice and data communications systems, namely, cable management racks and cabinets for copper and fiber optic data cables for structured cabling systems."

Registrant's '391 and '392 applications were allowed by the PTO over Petitioner's '669 registration and thus the PTO did not conclude there was any reasonable likelihood of confusion between Registrant's marks and Petitioner's mark. Further, Registrant's '391 and '392 applications were published for opposition by the PTO on February 17, 2009, and Petitioner did not raise any objection to either application during the period provided to it by the PTO to do so.

During this period and thereafter, Registrant adopted and invested heavily in its LAYER ZERO and LAYER 0 marks all in reasonable reliance on Petitioner's actions and statements, including, without limitation, Petitioner's action and statements concerning the nature of its purported rights in the LAYERZERO POWER SYSTEMS mark and the limiting nature thereof. It was not until May 2009 that petitioner filed U.S. trademark application serial no. 77/727,998 ("the '998 application") on the mark LAYERZERO POWER SYSTEMS, INC. for the following goods: "Static transfer switches, power distribution units, integrated static transfer switch-power distribution unit systems, remote power panels, remote distribution panels, power monitoring systems and uninterruptible power systems." But this was over eight years after Petitioner abandoned its '664 application with respect to, and indicated that it had no intent to use the mark in connection with, the same or similar goods. Moreover, it was not until nearly eight months after Registrant filed its '391 and '392 applications, that Petitioner filed its '998 application, and then, significantly later, that Petitioner finally notified Registrant of its objection to Registrant's '391 and '392 applications.

Registrant reserves its right to amend and/or supplement this Supplemental Response consistent with further investigation and discovery.



INTERROGATORY NO. 16

State the factual basis of Registrant's fourth affirmative defense in Registrant's Answer to Petition for Cancellation.

SUPPLEMENTAL RESPONSE:

Registrant reasserts and maintains the objections previously asserted in its Initial Responses and Objections.

Subject to, and without waiving the foregoing objections, Registrant supplements its response as follows: Registrant incorporates its Supplemental Response to Interrogatory No. 15 as though fully set-forth herein. Registrant reserves its right to amend and/or supplement this Supplemental Response consistent with further investigation and discovery.

Dated: August 3, 2012

Respectfully submitted,

/s/ Mark D. Giarratana
Mark D. Giarratana
Shawn Smith
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185 Asylum Street
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Attorneys for Registrant Ortronics, Inc.



CERTIFICATE OF SERVICE

The undersigned hereby certifies that a copy of the foregoing was served on Petitioner

LayerZero Power Systems, Inc. on the date indicated below via e-mail to:

Raymond Rundelli, Esq.
Juliet P. Castrovinci, Esq.
CALFEE, HALTER & GRISWOLD LLP
The Calfee Building
1405 East Sixth Street
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rrundelli@calfee.com
jcastrovinci@calfee.com

Dated: August 3, 2012

/s/ Mark D. Giarratana Mark. D. Giarratana





EXHIBIT A Attorneys' Eyes Only Trade Secret / Commercially Sensitive



designed to be better."



ORTR000991

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Copper Patch Panels

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Clarity* SNAP" Pre-Terminated Copper Cabling System

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Physical Support

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P.46 Clarity Patch Panels



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P.64 Clarity Patch Cords



P.68 Industrial Jacks and Plates



Clarity* Category 6 110 Block Kits



P.80 Mighty Mo* Cable Management Systems



P.157 Flber Cabinets



P.202 Keystone Modules



P.209 Data Adapters



P.213 Under Floor System



P.222 Steel Raceways



P.252 Enclosures

Li legrand Ortronics



P.34 Series II* Modules & Faceplates



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P.65 Clarity Shielded Patch Cords



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P.91 Cabinets



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P.236 Recessed Floor Boxes



P.261 Entertainment

17 legrand

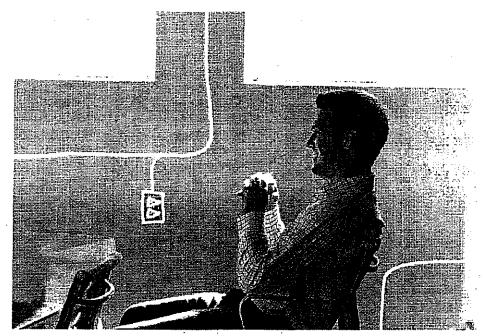


Whether you need to connect an entire multi-platform communications network or a single flat-screen TV, control heating and lighting throughout a convention center or safeguard a child's room, no one offers more solutions than Legrand. In North America, we provide solutions in 55 categories with over 30,000 items.

By maintaining close ties with our customers, we are able to offer innovative electrical and communications systems that add value and make a real difference in the lives of architects, contractors, suppliers and end users.

That's why every one of our solutions is designed to be as aesthetically pleasing as it is functional. And why 4–5% of all sales are invested in R&D. It's also why we design dedicated support into every project – from call centers and customized training programs to a comprehensive website. All backed by over 750 sales representatives across North America.

Dlegrand



Legrand | Ortronics

Legrand I Ortronice, headquartered in New London, Connecticut, USA, is a global leader in network infrastructure solutions, offering a complete range of copper, fiber optic, and physical support solutions.

Legrand I Ortronics is a subsidiary of Legrand lwww.legrandelectric.coml, the global specialist in products and systems for electrical installations and information networks where people live and work. Legrand is actively expanding its presence in fast-growing geographical zones and market segments that include lighting controls, energy savings and home automation.

In North America,
Legrand encompasses
seven core businesses
that provide innovative
products, systems and
solutions for the electrical and network infrastructure markets.

LEGRAND | CASLOFIL is a market leader in efficient and innovative open pathway cable management solutions. www.legrand.us/cablofil

LEGRAND I ON-Q is a leading developer of whole-home comfort, communications, and entertainment solutions. www.legrand.us/onq

LEGRAND | ORTRONICS is a global leader in network infrastructure solutions, offering a complete range of connectivity and physical support products.

www.legrand.us/ortronics

LEGRAND | PASS AND SEYMOUR is a leading source for innovative wiring devices for residential, commercial and industrial applications, www.legrand.us/passandseymour

VANTABE is a leading manufacturer of intelligent home control systems for luxury residential applications.
www.vantagecontrols.com

WATTSTOPPER is the firstchoice in state-of-the-art energy-efficient lighting controls for high performance buildings. www.wattstopper.com

LEGRAND | WIREMOLD is a market leader in wire management and cabling systems. www.legrand.us/wiremold



3

ENERGY ENCY

Legrand Energy Efficiency: a major criterion for high performance, sustainable environments.

Energy Efficiency is now an essential part of every Legrand project, it has even become a major factor for the success of projects. As the global specialist in electrical and digital building infrastructures, Legrand is offering more solutions for improved control of electricity to reduce consumption and contribute towards supplying high quality energy.

Legrand is committed to building high quality products which are more considerate of their environmental impact, help save energy and, in the end, mean less money spent maintaining these products. This is all made by a company whose corporate behavior matches the type of sustainable products Legrand strives to make. In the beginning, think about Legrand... in the end, realize less impact on the environment.

CONCERN FOR THE ENVIRONMENT TOUCHES EVERYTHING WE DO Legrand I Ortrenics, together with the other Legrand companies, is dedicated to the continued integration of sustainable practices into our business processes be environmentally responsible white halping our customers do the same.



Two examples of this are:



ISO 14801 Registered Facilities since 2009



ReHS Compliance Products from Legrand I Ortronics meet current ReHS compliance guidelines.* In addition, Ortronics considers ReHS guidelines in the design and material selection for all new products.

*except legacy 110 blocks



LAYER ZERO" - THE INFRASTRUCTURE LAYER. STABILIZES THE NETWORK

Layer Zero is the proposed new foundation for the ISO/OSI model. Layer Zero addresses the critical role that the physical intrastructure plays in network performance. Layer Zero solutions encompass the entire physical infrastructure that supports your network, including eisle containment, racks, cabinets, advanced cable management, pathway solutions, underfloor and everhead systems. By recognizing the importance of the underlying infrastructure layer and emphasizing best practices in pathway and physical support design, a new level of efficiency can be created for the natwork.

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THE LEGRAND ENERGY EFFICIENCY SOLUTION

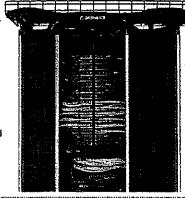
RACKS The Ortronics* Mighty Mo* 10 is the first rack to combine advanced cable management with superior airflow. Designed to maximize the airflow of active equipment, the Mighty Mo 18 features patented honeycomb side rails that allow ventilated air to be exhausted.

CABINETS The Ortronics Mighty Mo cabinet offers the same advanced cable management and airflow properties of our rack, designed into in a secure, fully configurable enclosure. Start with a frame and then select mounting rails, doors, side and top panels, vertical managers and accessories.

AIR CONTROL in addition to the traditional racks and cabinets that are the backbone of Ortronics physical support solutions, Legrand I Ortronics also offers Mighty Mo Air Control containment solutions.

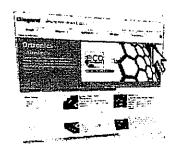
Together, Ortronics physical infrastructure and containment products provide complete thermal management solutions to direct heat and airflow in the data center, resulting in Improved cooling that significantly increases energy savings.

The Mighty Me 10
Advanced Cable
Management System
can eliminate the
additional 15 to 20 W
of power that typical
network equipment fans
consume, making for a
more energy-efficient
data center with reduced
power consumption and
energy costs.



Legrand | Ortronics is the leader in passive airflow control, with patented physical infrastructure solutions that properly manage heat and airflow.

LEBRAND ENERGY EFFICIENCY SOLUTIONS ON THE INTERNET
Legrand | Ortronics has defined a new term: "ecoinfrastructure",
defined and explained in our web portal. This web portal is a
comprehensive learning tool designed to provide users with a
wide range of information and relevant resources to assist them in
achieving their organization's sustainability goals. Here you can find;
Legrand | Ortronics's corporate behavior, LEED education, relevant
industry standards and guidelines, white papers and best practices
for network efficiency and "green" data center design, and much
mere, www.ortronics.com/us/ecoinfrastructure/





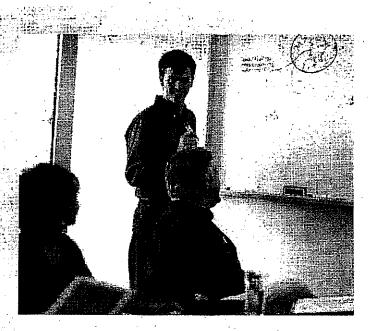
BUILDING ENERGY EFFICIENCY

Legrand I Ortronics supports the objectives of the U.S. Green Building Council, an organization whose mission is to transform the way buildings and communities are designed, built and operated, enabling an environmentally and socially responsible, healthy, and prosperous environment that improves the quality of life, Legrand I Ortronics has been a member of the USGBC since 2004.

TRAINING & CERTIFICATION

Legrand | Ortronics offers comprehensive certification programs to ensure the best project design and installation services.

For course descriptions and schedules, please visit education at www.legrand.us



Training

Protecting the investment in a structured cabling system is one of the main concerns of customers today. The structured cabling system provides a necessary foundation for a network to work effectively. Problems identified when the network becomes active can be extremely costly to correct and may effect mission-critical system networks.

Lagrand | Ortronics addresses Installation practices-

- By providing a select group of Certified Installers, globally, who guarantee their workmanship
- By training the best consultants, architects and design engineers
- By providing education for the customer information on today's leading technology and the latest standards

Certification

"Certification" is such an important component of a successful installation that is often overlooked. The better the design, the products, and the installation, the higher return-on-investment the customer will receive. Legrand I Ortronics has developed comprehensive certification programs to ensure the best project design and installation services.

Legrand Design Professional Program (LDP)

A comprehensive engineering program developed specifically for Architects, Designers, Engineers, and Technology Consultants

LDP is designed to empower participants to deliver high quality, leading edge telecommunications system designs and specifications by providing the highest level of technology support.

- All L-DP participants must attend at least one annual seminar, to ensure the most current knowledge of the latest technology including:
 - O Industry standards (IEEE, TIA)
 - Specification writing practices
- □ Layer Zero* design
- □ Emerging technologies
- LDP technology seminar participants also receive BICSI CEC credits.

CERTIFIED INSTALLER PROGRAM

Only the best installers in the industry are selected for our certified installer program.



Certified Installer Program

Legrand | Ortronics has the most selective program worldwide with the best installers in the industry participating in this exclusive program. Each Certified Installer company most meet and maintain the minimum training requirements:

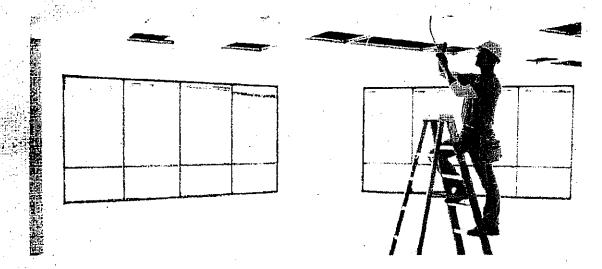
- 1 project manager attends a 2-day management certification course
- 30% of technicians successfully complete a 1-day copper and fiber optics installation course

Each certified installer company is evaluated every 12 months to ensure Legrand I Ortronics is working with the best installers in the industry.

At Legrand | Ortronics, we only consider the best installers to be part of our program. Even within our program, there is differentiation. To be considered for the top tier, Certified Installer Plus-Enterprise Solutions Partners (CIP-ESP), the installer company must demonstrate the following:

- Precisely duplicate the customer's standard design, product choices and communication protocols
- Work closely with the distributor of choice for seamless togistics
- # RCDD on staff
- Constantly search for improved process opportunities
- Handle all channel disputes internally and not jeopardize the installation or the end-user

CERTIFIED INSTALLER PROGRAM



Why choose a Legrand | Ortronics Certified Installer?

In addition to purchasing a product designed and manufactured to Legrand 1 Ortronics' exact specifications, quality installation practices maximize the performance of a network. Selecting the best trained installer will prevent performance degradation due to poor installation practices.

A Legrand | Ortronics Certified Installer can provide the quality installation that will maximize structured cabling system performance with quality assurance provided through extended product and performance guarantees. Only a Legrand | Ortronics Certified Installer

Only an installer certified by Ortronics can offer our Extended Warranties

can provide extended warranties. Legrand | Ortronics stands behind all extended warranties.

Why is a warranty important to the customer?

A Legrand I Ortronics warranty ensures that the installed products are free

from defects in materials and work-manship and will support applications developed by industry organizations like IEEE or ATM Forum. The products are warranted to meet or exceed the specifications of standards organizations including, but not limited to, ISO/IEC and TIA. Under the extended warranties products are repaired or replaced and labor is paid by Legrand I Ortronics. This offers customers the security of knowing they will receive the best structured cabling system and that the system will maintain its performance integrity for years to come.

LEGRAND | ORTRONICS WARRANTY PROGRAM

Basic Product Warranty

- Guarantees product repair or replacement for five (5) years from the time of purchase, excluding labor costs
- Basic warranty issued to the enduser on Ortronics® connectivity products, racks, cable management and fiber optic products when purchased from an authorized distributor

Extended Product Warranty

- Guarantees product repair or replacement including labor costs
- Issued when a Legrand | Ortronics certified installer installs Ortronics connectivity with approved manufacturer's cable
- All requirements of the Legrand | Ortronics certification and warranty program must be met, which includes registering the project for warranty

Applications Assurance Warranty

- Guarantees product repair or replacement including labor costs
- Applications Assurance guarantees the performance of applications for the specified cabling category in

- accordance with the current TIA-568 version.
- Issued when a Legrand | Ortronics certified installer installs
 Ortronics connectivity with approved manufacturer's cable
- All requirements of the Legrand | Ortronics certification and warranty program must be met, which includes using only Ortronics patch cords
- The project must be registered for warranty and test data must be submitted to Legrand I Ortronics

NetClear® Warranty

Legrand I Orironics also offers the best warranty in the industry, the NetClear® 25 year warranty, with Berk-Tek®, a Nexans company. To qualify for a NetClear warranty, the structured cabling solution must be comprised of defined Ortronics connectivity and Berk-Tek cable. Specific products are listed on NetClear data sheets available at www.netclear-channel.com.

These products are co-engineered and part of an extensive design, development, dynamic and active testing program.

The NetClear warranty provides the most extensive guarantee

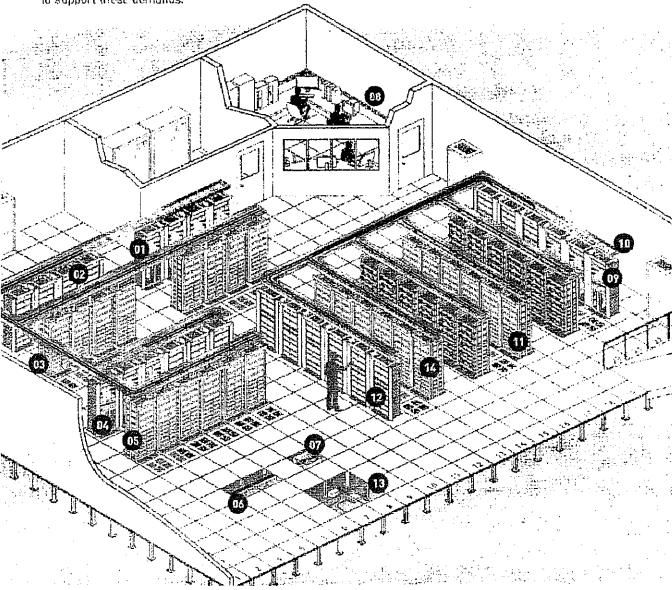
The NetClear Warranty therefore provides the most extensive guarantee including:

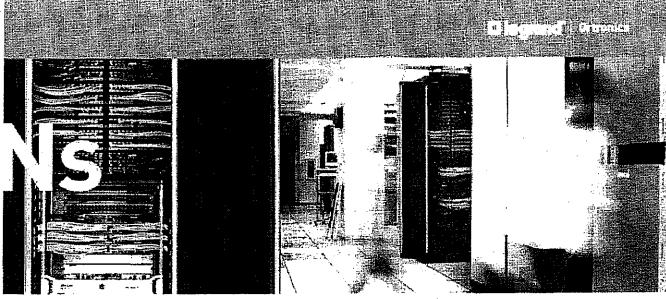
- dB headroom over the TIA performance specifications for both Category 5e and Category 6, verifiable by a handheld tester
- Support for all current and future applications for the specified cabling category in accordance with the current TIA-568 version
- Performance guarantees for 2, 3 or 4-connector channels up to 100 meters
- Guarantee that the channel will be free from bit errors caused by the NetClear structured cabling system.
- Cost of labor to repair or replace defective product
- A 25-year warranty extended directly to the end-user

For complete warranty statements please visit www.legrand.us. A list of approved cable manufacturers and approved testers is also available on the Legrand web site.

NOTE: The above mentioned warranties cover passive products only. Warranties do not cover iTracs and other active products.

Mission-contail data centers and SANs require reliable. Resulte and scalable infrastructures with guaranteed performance. Ortronics?, Wiremold and Cablolil offer a complete selection of high density copper and fiber optic structured cabling solutions as well as cable management and pathway systems to support these demands.







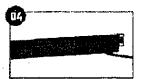
Clarity FTP Patch Panels Clarity FTP Patch Cords



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Wheneld CacheMATE
Table In Outlet Center Units



Wiremord Reck Mount Plus in Outset Center Chica



Wiremold Pewer Commander* Power Distribution Units



Jabiot F Underfloor Caple Management System.



OptiMot Rewed Floor Patch Panels Wireimed Raised Floor Zone Cobling Endosure



Winemole* Metal & Nonmetaltic Receway



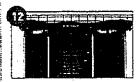
Clarity* UTP Patch Parets Clarity UTP Patch Cords



Ortherios - Laino Style
- Lubwar Kudway or Cabilobt
- Wire Mesh Basket



Mighty Mo" 10 Server Rack



Mighly Mo 19 Advanced Sable Management System



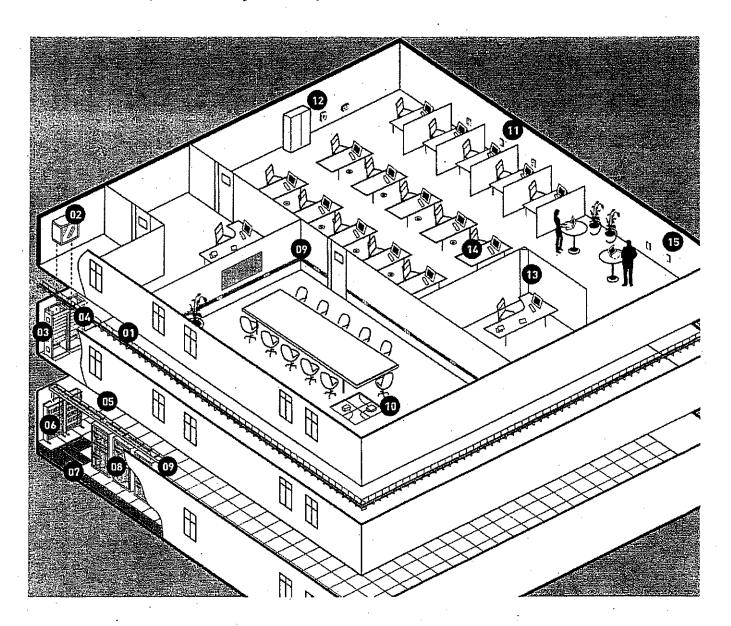
Wixeneoté WalkerHexii Modulah Waing System



Mighty Mercultures

LAN/Enterprise

Whether it is copper, fiber, A/V or cable management, from building entrance to desktop, Ortronics*, Wiremold and Cablofil offer more ways to connect to keep business moving - seamlessly.



PRODUCTS & SOLUTIONS FOR THE LAN/ENTERPRISE

Cilegrand® | Ortronics



Cablofil® Wire Mesh Cable Tray



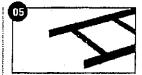
Mighty Mo* Wall Mount Cabinet



Mighty Mo Advanced Cable Management System with Clarity UTP Patch Panels and Patch Cords



OptiMo® FC Series Fiber Cabinets with Adapter Panels and Patch Cords



Ortronics* Telco Style Tubular Runway



Mighty Mo 110D Frames



Cablofil Underfloor Cable Management System



Mighty Mo Server Rack



Wiremold^e Metal & Nonmetallic Raceway



Wiremold Walkerllex* Modular Wiring System



Clarity TracJack or Series II Outlets



Fib-or-Cop Workstation Outlet



Wiremold Vista" Column



Wiremold Poke-Thru Devices

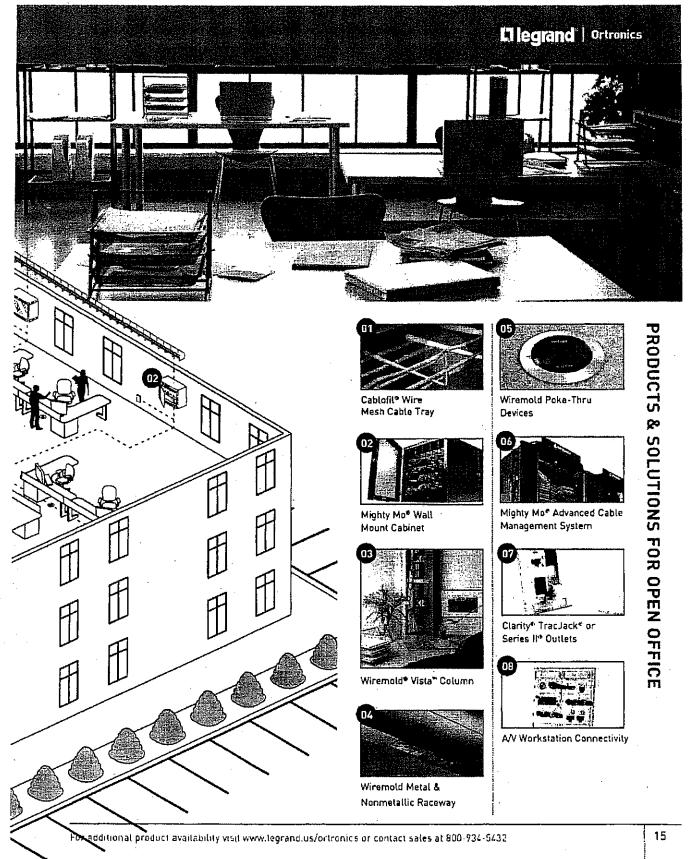


A/V Workstation Connectivity



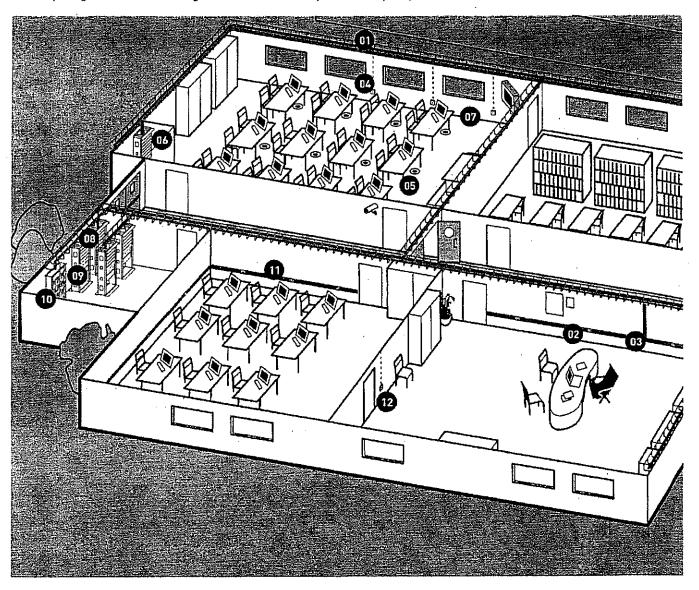
Mighty Mo Cabinet

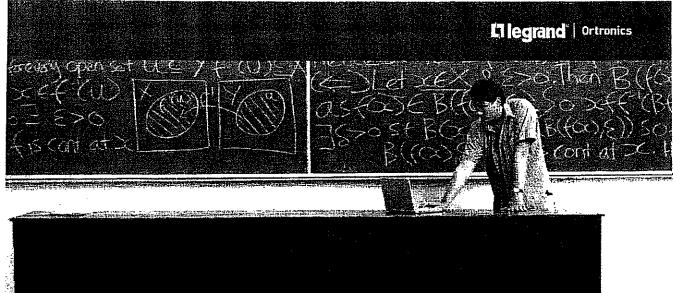


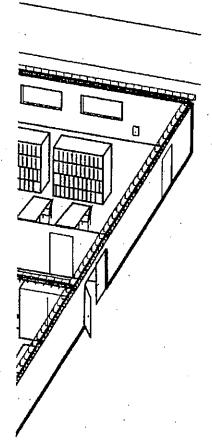


Education

Ortronics®. Cablofit and Wiremold have all the integrated connectivity and cable management solutions needed for educational institutions who are taking advantage of new converging technologies such as distance learning, distributed computing, interactive teaching tools, A/V connectivity and IP telephony.









Cablofil^a Wire Mesh Cable Tray



Clarity® TracJack® or Series II® Modules Clarity Surface Mount Boxes



Wiremold® Metal & Nonmetallic Raceway



TracJack Undercover Wall Plates



Wiremold Poke-Thru Devices



Mighty Mo® & Advanced Cable Management System



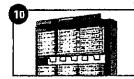
A/V Workstation Connectivity



Clarity UTP Patch Panels Clarity UTP Patch Cords



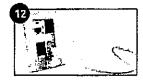
OptiMo* FC Series Fiber Cabinets OptiMo Fiber Adapter Panels and Patch Cords



Mighty Mo 110D Frames



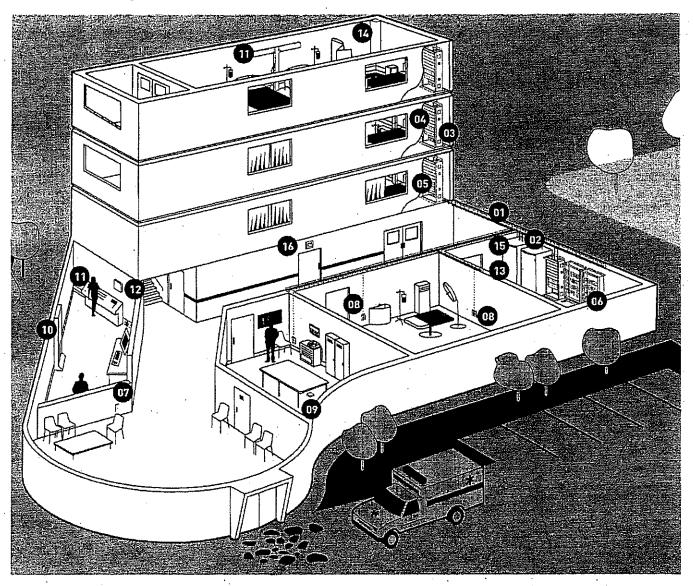
Wiremold Metal & Nonmetallic Raceway



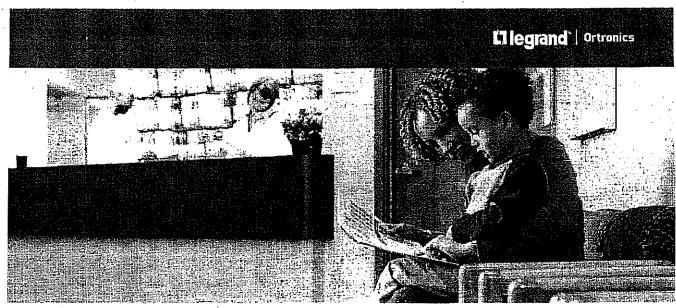
Clarity TracJack or Series II Outlets

Healthcare

Healthcare facilities need a high performance network when adopting technologies for applications such as high resolution imaging, patient record management, and remote diagnostics and surgery. Ortronics® offers the advanced structured cabling solutions needed for these high bandwidth applications, as well as cable management solutions from Cablofil and Wiremold.



PRODUCTS & SOLUTIONS FOR HEALTHCARE





Cablofil* Wire . Mesh Cable Tray



Mighty Mo* Cabinet



Mighty Mo 6 Advanced Cable Management System



OptiMo* FC Series Fiber Cabinets with Adapter Panels and Patch Cords



Clarity® UTP Patch Panels Clarity UTP Patch Cords



Mighty Mo 110D Frames



A/V Workstation Connectivity



TracJack* Stainless Steel Faceplates



Wiremold* Floor Box



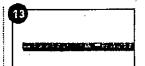
Wiremold Walker* Wallduct



Wiremold Metal & Nonmetallic Raceway



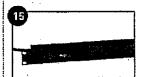
Fiber Optic Surface Mount Cabinets



Wiremold Power Commander³ Power Distribution Units



Wiremold Vista* Column



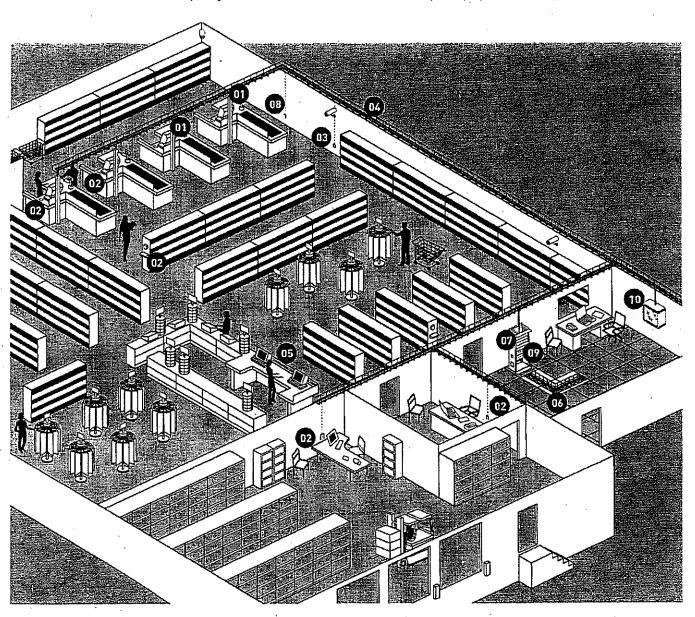
Wiremold CabinetMATE*
Plug-In Outlet Center* Units

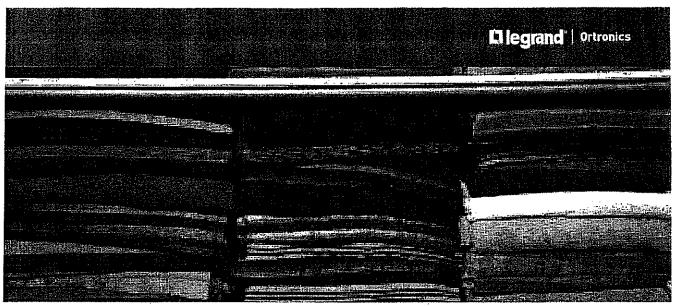


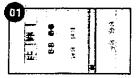
Connectivity Solutions for IP Network Security Devices

Retail

Ortronics® knows that retailers are integrating IT into their business strategies. Ortronics, Wiremold and Cablofil offer all the connectivity and cable management for standardization at store locations. Customized kits with everything from closet to workstation facilitate rapid deployment at every location.







Wiremold* Tele-Power* Poles at registers



Clarity® TracJack® or Series II® Outlets



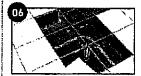
Connectivity Solutions for IP Network Security Devices



Cablofil® Wire Mesh Cable Tray



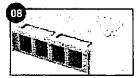
Wiremold Metal & Nonmetallic Receway



Cabiofil Underfloor Cable Management System



Mighty Mo* 6 Advanced Cable Management System



Clarity Surface Mount Boxes



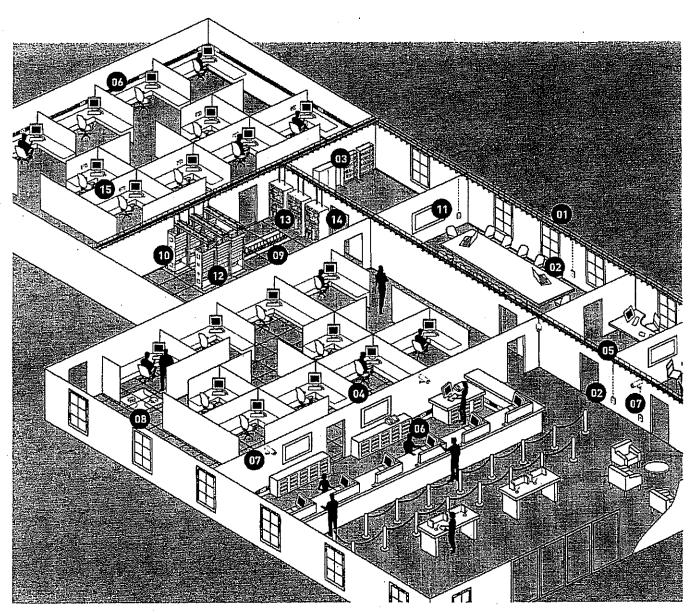
Momentum® Modular MTP®/MPO-based cassettes Clarity UTP Patch Panels Clarity PoE Patch Panels Clarity UTP Patch Cords



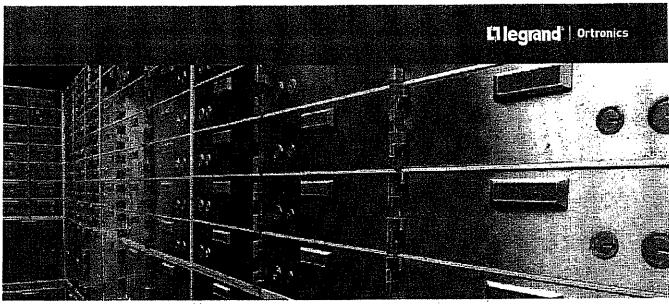
Mighty Mo Wall Mount Cabinet

Financial

Financial institutions require 24/7 real-time networks that are fast, reliable, and secure to keep the global economy moving. Ortronics[®] fiber optic and shielded copper systems are ideal for securing transactions and other confidential information.



PRODUCTS & SOLUTIONS FOR FINANCIAL





Cablofil* Wire Mesh Cable Tray



Clarity* TracJack* or Series II* Outlets



Mighty Mo 110D Frames



Wiremold® Raised Floor Boxes



Wiremold Poke-Thru Devices



Wiremold Metal & Nonmetallic Raceway



Connectivity Solutions for IP Network Security Devices



Wiremold Walkerflex*
Modular Wiring System



Cablofil Underfloor Cable Management System



Mighty Mo® 6 Advanced Cable Management System



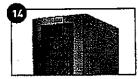
A/V Workstation Connectivity



OptiMo® FC Series Fiber Cabinets OptiMo Fiber Adapter Panels and Patch Cords Momentum® Modular MTP®/ MPO-based cassettes



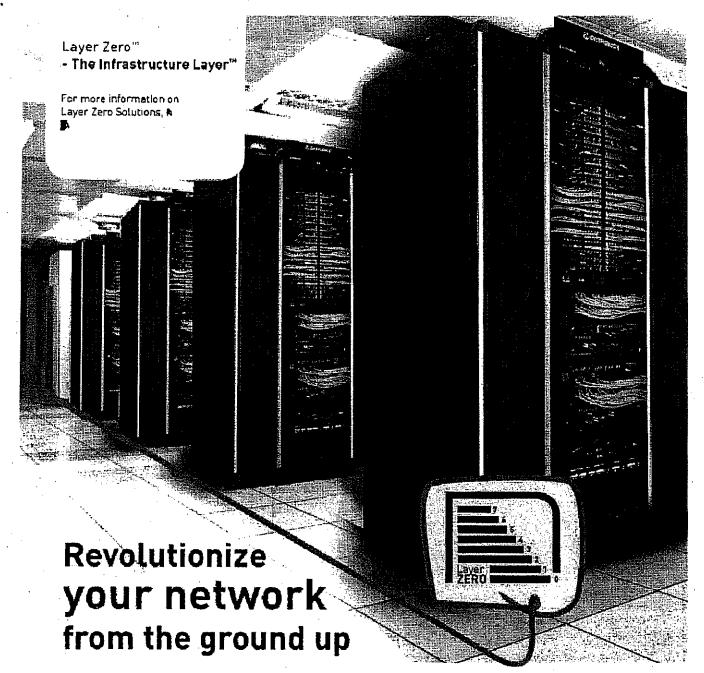
Clarity UTP Patch Panels Clarity PoE Patch Panels Clarity UTP Patch Cords



Mighty Mo Cabinet



TracJack Furniture Bezels



For maximum network efficiency, start at the foundation.

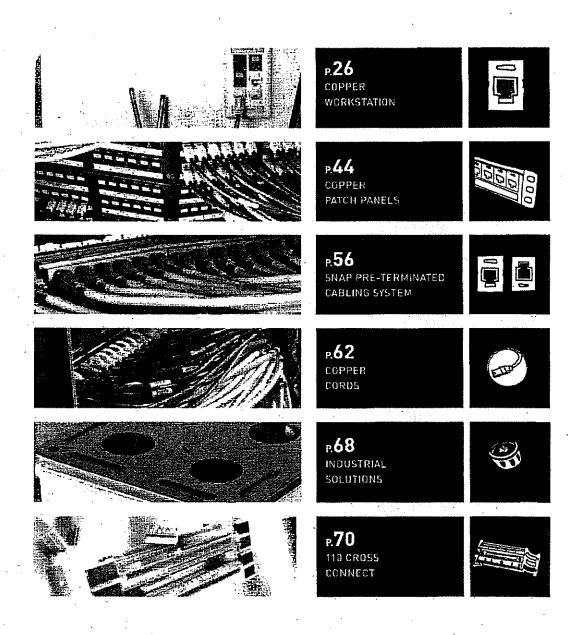
Layer Zero provides a new foundation for the OSI model to address the critical role that infrastructure plays in network performance. The right solutions at Layer Zero can reduce power consumption and cooling costs, reduce the risk of equipment failure, and improve overall system performance. Contact your Legrand representative to learn more about the impact of Layer Zero on your data center.

designed to be better."



Ortronics

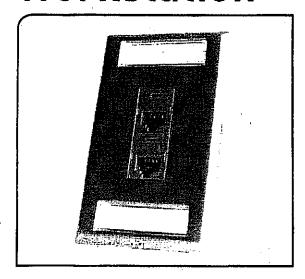
COPPER CONNECTIVITY



HIGH PERFORMANCE STRUCTURED CABLING PRODUCTS & SOLUTIONS

COPPER CONNECTIVITY

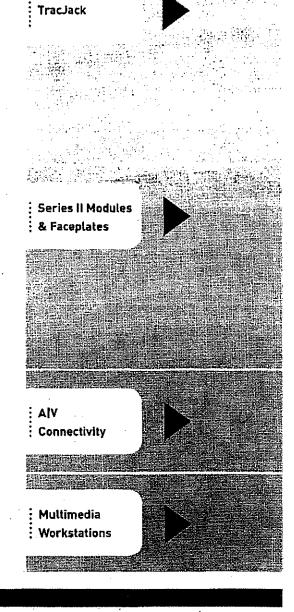
Copper Workstation



Evolving networks demand the technology to support elevated performance requirements. Reality necessitates this elevated performance be delivered via a design that will meet specific mechanical, environmental and aesthetic workstation requirements. Legrand | Ortronics provides industry leading performance in both the individual footprint of TracJack® and the rugged module footprint of Series It®—two premium workstation approaches with a common mission to provide the best quality, performance and value.

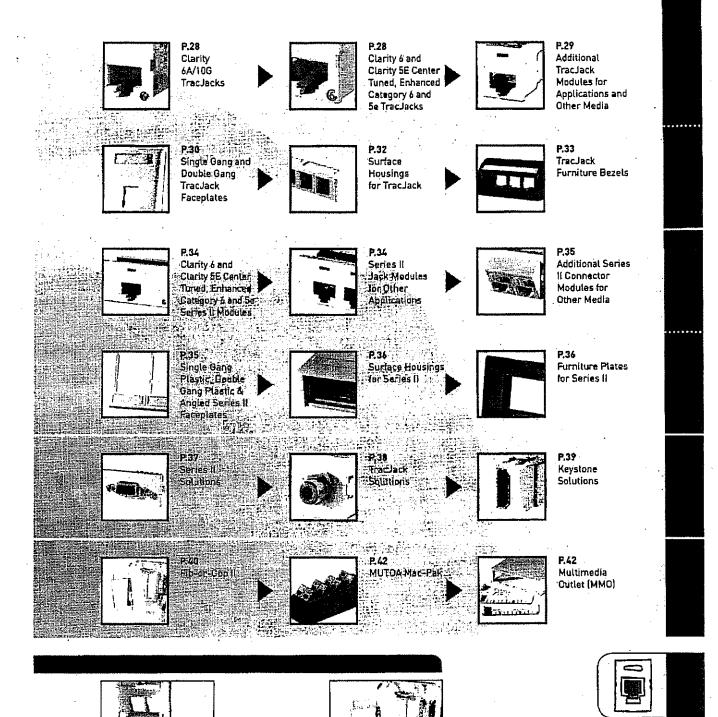


F E A T U R E D **R O D U C T S**





Clarity 6A/10G TracJack P.28



TracJack Undercover

Wallplate

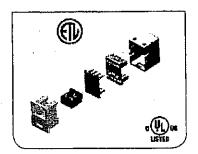
P.32



Dlegrand | Ortronics

TRACJACK®

NOTE: All Ortronics product dimensions are listed by width, fieight and depth unless specified otherwise TracJack® modules combine the ease and reliability of a front-loading individual jack with preferred 110 termination and offer universal T568A/B wiring.



AALT-RO



Clarity 6A/10G Category 6A TracJacks

Clarity 6A TracJacks now offer the elevated performance of quad reactance minimize internal crosstatk and reduce the injection of common mode noise, a significant source of allen crosstalk. These connectors work with Clarity 109 patch cords to provide a nearly transparent signal path for enhanced signal-to-noise (internal and atien) performance.

These front-loading lacks are icon-competible and can be used in any TracJack workstation outlet. Meets TIA 568C.2 augmented Category 6 component specifications.

PARTIND TO

DESCRIPTION

OR 180° exit, fog white

NOTE: T568A/8 wiring.

Ctarity 6A Jacks are available in these colors: -00=black, -36=blue, -42=red, -43=orange, -44=yellow, -45=green, -68=Wiremold* gray, -88=white,

-77=Wiremold ivery. Add tailcode to and of part number.

004LT-R0

OR-13845



Clarity 6 and Clarity 5E Center Tuned, Enhanced Category 6 and 5e TracJacks

Ortronics Clarity* TracJacks feature the improved performance of center tuned Catagory 6 or 5e connector technology. Enhanced IDC designs make it easier to terminate while reducing the size of the Jack.



DESCRIPTION

Clarity 6 Jack, 8-position, 180° exit, fog white Clarity 6 Jack, 8-position, 45° exit, fog white Clarity 5e Jack, 8-position, 180° exit, fog white Clarity 5e Jack, 8-position, 45° exit, fog white

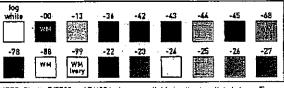
NOTE: T568A/B wiring, Icon compatible. See color chart below for available colors





OR-TJSE45





NOTE: Clarity TJSE00 and TJ600 jacks are available in all colors listed above. The Clarity TJSE45 and TJ645 are not available in colors 22-27. WM indicates Wiremold color match. These color samples correspond with the tail codes inserted at the and of Ortronics part numbers (ex: OR-TJ800-45). Fog white is standard, requiring no tail code. Consult sates for availability and other colors.

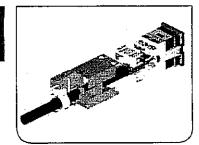
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[legrand | Ortronics

TRACJACK®

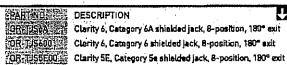
Clarity Shielded TracJacks meet TIA Category 6A, Category 6 and Category 5e component specifications and are precisely tuned to the terminated plug values of Clarity patch cords for optimum performance that is field measurable in the channel. Clarity uses dual reactance technology to enhance signal-to-noise ratio, providing a nearly transparent signal path.

- Exceeds ISO 11801 2nd edition including EN50173 2nd edition
- Meets IEC 60603-7-5 2nd edition (draft) specifications
- ETL 3rd party component tested and verified
- Easy lace IDC housing accepts larger conductors
- Easy to follow universal wiring label—quick and user-friendly
- Fits in all TracJack plates and housings
- Icon compatible, 6A, C6 and 5E marking on jack face
- Backward compatible to shielded Category 3, 5, 5e and 6
- Center tuned connectivity design
- Compatible with 110 impact tool



Clarity 6 and Clarity 5E Shielded Category 6A, 6 and 5e TracJacks





PARTING DESCRIPTION
OF PSY Clerity 6, Category 6A shielded jack, 8-position, 180° exit OR-T-5600 Clerity 6, Category 6 shielded Jack, 8-position, 180" exit

NOTE: T568A/B wiring.

TRACJACK

See page 196 for Fiber TracJack modules

Additional TracJack® Modules

DR-43730803

DR-63700005







DESCRIPTION

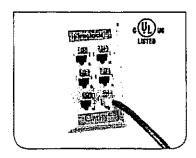
Category 3 Jack, 8-position, 180° exit, T568A/B wiring, icon compatible RJ25 jack, 6-position, 180° exit, USOC wiring. icon compatible

NOTE: Standard color for TracJack modules is log white. *Indicates also available in -99 Wiremold ivory and -88 white: Contact Ortronics sales department for other colors.

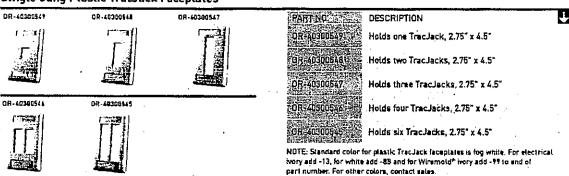
☐ legrand | Ortronics

TRACJACK®

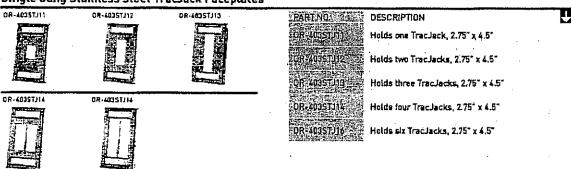
NOTE. All Unitorics product dimensions are listed by endth, height and depth unless specified otherwise Legrand | Ortronics offers a full range of TracJack® faceplates in plastic or stainless steel, with a variety of port capacities to match your workstation applications. All TracJack plates offer recessed label fields and slotted screw holes to adjust alignment. They are ruggedly constructed from high impact thermo-plastic 94V-0 rated to ensure long life. Two to 12-port plastic well plates now include the ability to rear-load TracJack modules.



Single Gang Plastic TracJack Faceplates



Single Gang Stainless Steel TracJack Faceplates



Double Gang Plastic TracJack Faceplates OR-40300554

~(L^* 10)

OR-40300620

| Double Gang | Stainless Steel TracJack Faceplates | OR: 40900554 Holds eight TracJacks, 4.5" x 4.5" OR: 40900520 Holds twelve TracJacks, 4.5" x 4.5" NOTE: Standard color for TracJack plastic faceptales is log white. For other available colors, contact sales. | |
|-------------|-------------------------------------|--|---|
| OR-4025TJ18 | 08-4035T/212 | PARTING DESCRIPTION OR-2035T1232 Holds leght TracJacks, 4.5" x 4.5" OR-2035T3232 Holds legite TracJacks, 4.5" x 4.5" | 0 |

OR-40300555

「国際」

DESCRIPTION

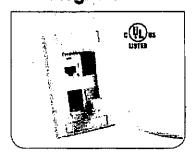
Holds six TracJacks, 4.5" x 4.5"

Clegrand Ortronics

TRACJACK®

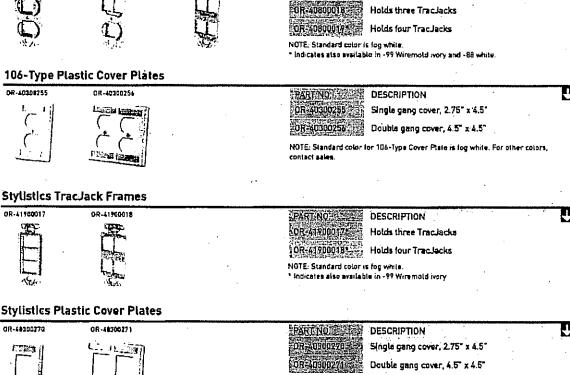
NOTE: All Ortronics product dimensions are listed by width, height and depth unless specified otherwise.

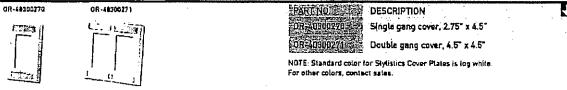
Legrand | Ortronics offers TracJack® mountings in both the 106-Type duplex footprint or the Stylistics* rectangular [GFCI] footprint, with a variety of port capacities to match your workstation applications. These two footprints are common to Wiremold* and many other industry standard raceway, furniture, pedestals and floor boxes. Legrand I Ortronics also offers plastic cover plates with recessed label fields and slotted screw holes to adjust alignment. All parts are ruggedly constructed from high impact thermo-plastic 94V-0 rated to ensure long life.

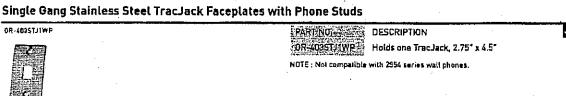


106-Type TracJack Frames









For additional product availability visit www.legrand.us/ortronics or contact sales at 800-934-5432

□ legrand | Ortronics

TRACJACK®

NOTE. All Ortronics product dimensions are listed by width, height and depth unless specified otherwise.

0R-403TJU58



TracJack Undercover Wall Plate

The TracJack® Undercover provides a protective housing for four center mount TracJacks with the ability to add an additional copper or fiber TracJack out the bottom. This single gang housing offers increased protection for connections in temper sensitive environments.

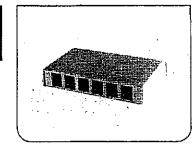


DESCRIPTION

Single gang protective housing holds up to five Traculack modules, 6.68°H x 2.25°D x 2.74°W

TRACJACK

Ortronics® TracJack surface mount boxes are available to house from two to six TracJacks. Bases are easily installed with supplied screws or double-sided adhesive. Snap-on covers have recessed tabel fields. Boxes are ruggedly constructed from high impact thermo-plastic 94V-0 rated. Standard color is fog white. Compatible with Wiremold 2700, 2800 and 2900 raceway series.



Surface Housings for TracJack

OH-404112

OR-404TJA





OR-4047,/2X2

OR-404TJ6







DESCRIPTION

Holds two TracJacks, 2.59" x 2.27" x 1.20"

Holds four TracJacks, 4.80° x 3.6° x 1.16° Note: Can mount directly to single gang recessed wall boxes. Includes one TracJack blank.

Holds four TracJacks, jacks exit from both sides, $4.0^{\circ} \times 2.42^{\circ} \times 1.16^{\circ}$

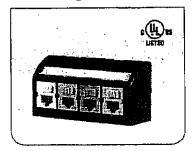
Holds six TracJacks, 6.98" x 4.33" x 1.16" Note: Includes internal storage ring for liber and two TracJack blanks. Can mount directly to single or double gang recessed wall boxes.

Li legrand | Ortronics

TRACJACK®

NOTE: All Ordenics product dimensions are listed by width, height and depth unless specified otherwise. Legrand I Ortronics offers TracJack® plates for most furniture systems. Plates easily snap mount into furniture, requiring no special tools. Plates are ruggedly constructed from high impact thermo-plastic 94V-0 rated.

IMPORTANT: Measure furniture openings to determine the correct plats.



Furniture Plates for TracJack

| DR-40300577-00 | Off-60300576-00 | OR-40390575 |
|-----------------|-----------------|----------------|
| | | |
| OR-40300633-80* | OR-42100909 | OR-42100954-00 |
| | Ш | |
| OR-40700071 | OR-40709072* | QR-40700073* |
| | | |

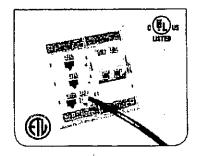
| PART NO. | DESCRIPTION |
|------------------------|---|
| | Holds four TracJacks, fits Herman Miller Beitline |
| OR:40300577 | furniture openings 2.35" x 3.41" (+.015) for .125" |
| | , thick material, fog white |
| OR-40300577-00 | Black |
| A CONTRACTOR OF THE | |
| 建设建筑进 | Holds six TracJacks, fits Herman Millar Battline |
| DR-40300576 | furniture openings 2.35" x 3.41" (+.015) for .125" |
| | thick material, fog white |
| OR-40300574-00 | Black |
| | Malda ata Tara da dia Madua ara Millar Basalina |
| DR-40300575 | Holds six TracJacks, fits Herman Miller Baseline furniture openings 1.89" x 2.99" [+.015] for .063" |
| | thick material, fog white |
| | and Historian log Trinia |
| OR-40300575-00 | Black |
| | Holds four TracJacks, two-piece base and cover, |
| 66 V # 85 V # 144 | adjustable to fit a range of common furniture |
| DR-403006337 | openings (2.67"-2.75" x 1.34"-1.41") for .065" |
| | thick material, log white |
| OR-40300633-001 | Black |
| allower to be succeed. | Differ |
| OR-42100009 | Adapter plate, front-loads three Traclacks, fog white |
| OR-42100009-00 * | Black |
| | • |
| OR 42100054 | Adapter plate, rear-loads three TracJacks, |
| | fog white, five pack |
| OR-42100054-00 | Black, five pack |
| | .125" deep bezel mounts adapter plates above to |
| OR-40700071 | 2.71" x 1,38" (+.035) opening, fog white |
| | |
| OR-40700071-00 | Black |
| | .625° deep bezel mounts adapter plates above to |
| GR-40700072* | 2.71" x 1.38" (+.035) opening, for white |
| | Oth |
| /QR=40700072-00* | Black |
| OR-40700073* | 1.0" deep bezel mounts adapter plates above to |
| | 2.71" x 1.38" (+.035) opening, fog white |
| 0R-40700073-001 | Black |
| | print, mil |

^{*} Have recessed label fields

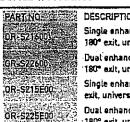
| legrand | Ortronics

SERIES II®

NOTE: All Orionics product dimensions are listed by width, height and depth unless specified otherwise. Ortronics® Clarity® Series II modules combine the improved performance of center tuned Category & or Se connector technology with the ease and reliability of rugged, front-loading Series II modules with linear 110 termination.



Clarity 6 and Clarity 5E Enhanced Category 6 and 5e Series II Modules



DESCRIPTION

Single enhanced Category 6 Jack, 8-position, 180° exit, universal T568A/B wiring

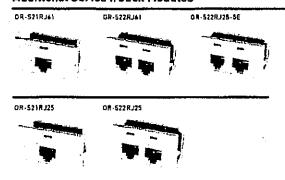
Dual enhanced Category 6 jack, 8-position, 180° exit, universal T568A/B wiring

Single enhanced Category 5e jack, 8-position, 180° exit, universal T568A/B wiring

Dual enhanced Category 5e jack, 8-position, 180° exit, universal T568A/B wiring

NOTE: Clarity Series II modules are available in -99 Wiremold' (vory, -88 white and -90 black, fron compatible.

Additional Series II Jack Modules





DESCRIPTION

Single USDC RJ61 jack, 8-position, 180° exit

Duat USOC RJ61X jack, 8-position, 180° exit

Single RJ25 USOC 6-position jack, single T568A/B
Category 5e, 8-position jack, 180° exit

Single USOC RJ25 jack, 6-position, 180° exit

Dual USOC RJ25 Jack, 6-position, 180° exit

NOTE: See page 194 for Fiber Series II modules

Lilegrand | Ortronics

SERIES II®

See page 194 for Series II Fiber modules

NOTE: Alt Ortronics product dimensions are listed by width, height and depth unless specified otherwise.

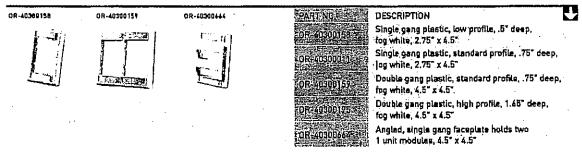
Additional Series II Connector Modules

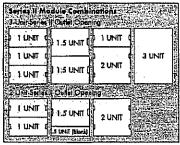
OR-40300144 OR-4030054 OR-4030054 PARING DESCRIPTION
OR-40300144 Blank module, 5 unit
OR-40301712 Blank modules, 1 unit, package of tan
OR-40300873 Blank modules, 1.5 units
OR-40300874 Series II angled bezel, accepts two flat TracJack modules, ten pack, 1.5 units

SERIES II

Legrand I Ortronics offers single and double gang Series II plastic faceplates with a variety of port capacities to match your workstation applications. Series II plates offer recessed label fields, slotted screw holes to adjust alignment, and are ruggedly constructed from high impact thermo-plastic 94V-0 rated to ensure long life.

Single Gang Plastic, Double Gang Plastic and Angled Series il Faceplates



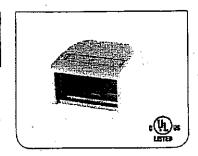


*Available in Wiremold ivory

Dlegrand Ortronics

SERIES II

NOTE: All Ortronics product dimensions are listed by width, height and depth unless specified otherwise. Ortronics* Series II surface mount boxes are available to house one to four 1-unit modules. Bases are easily installed with supplied screws or double-sided adhesive. Snap-on covers have recessed label fields. Series II surface mount boxes are ruggedly constructed from high impact thermo-plastic 94Y-0 rated. These surface mount boxes work with 180° modules only. Compatible with Wiremold 2700, 2800 and 2900 raceway series.



Surface Housings for Series II

DR-404527U OR-404521X1U



OR-484522XZU







DESCRIPTION

Holds one 1-unit Series II module, tog white, 2.27" x 2.59" x 1.20"

Holds two 1-unit Series II modules, fog white, includes one Series II blank, 3.60" x 4.80" x 1.16"

Holds two 1-unit Series II modules, fag white, includes one Series II blank, 4.00" x 2.42" x 1.16"

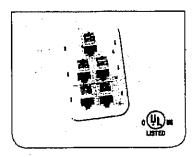
Holds three 1-unit Series II modules, internal fiber storage ring, fog white, 4.33" x 6.98" x 1.16"

Holds four 1-unit Series II modules, fog white, includes two Series II blanks, 4.00" x 4.71" x 1.16"

NOTE: Goes not accept 45° modules.

SERIES II

NOTE: All Ortronics product dimensions are listed by width, height and depth unless specified otherwise. Legrand | Ortronics offers a wide selection of Series II plates for the many furniture systems available today. Plates easily snap mount into furniture, requiring no special tools. Plates are ruggedly constructed from high impact thermo-plastic 94V-0 rated. IMPORTANT: Measure furniture openings to determine the correct plate.



Furniture Plates

OR-40300174









OR\$40300167

DR-40300167-09

PART NO SEPTIME



Holds three 1-unit Series II modules, log white, fits Herman Miller Baseline furniture openings 1.89" x 2.99" (+.015) for .0625" thick material

Holds three 1-unit Séries II modules, fog white, fits Herman Miller Beltline furniture openings 2.35" x 3.41" (+.015) for .125" thick material

Holds one 1-unit Series II modules, black, 2.7" x 1.375" (+.03) for .090" thick materi

Fog white

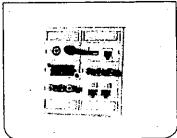
☐ legrand | Ortronics

AUDIO I VIDEO CONNECTIVITY

NOTE All Ortronics product dimensions are listed by width, height and depth unless specified otherwise.

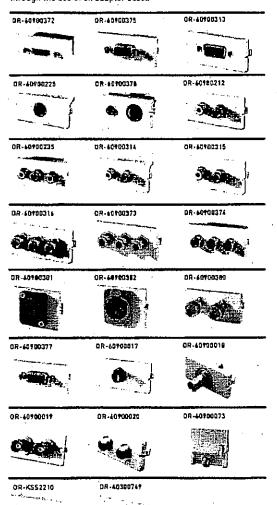
The Legrand | Ortronics range of audio, video, and data connectivity options offers you the flexibility, modularity and application density needed to support a wide variety of AV equipment. Ortronics modules are available in our Series It*, TracJack*, and TechChoice* (keystone) footprints. We also offer a wide selection of connector termination styles and module colors.

IMPORTANT: Measure lumiture openings to determine the correct plate.



Series IIº Solutions

Series II^a (colprint provides the broadest range of options for data and A/V connectivity. It's ideal for larger A/V connectors such as VGA and combination modules which have both audio and video together. Series II also supports TracJack and keystone footprints through the use of an adapter bezel.

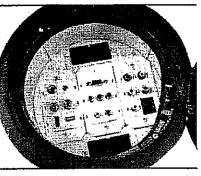


DESCRIPTION PART NO. OR-60900372 .OR-60900324 OR-80900375 OR-809003131-OR-60900225 OR-60900378 DR-60900379 OR-60900212 OR-60900235 OR-40900314. OR-60900315 OR 30900316 DR:80900373 OR+60900374 OR-60900273 OR-60900381 OR-60900382 OR-60900380 OR-60900377 OR-60900017 GR=60900018 OR=60900019 DR-60900020

OR-609000731 6 1.

HDML female to female, 19pin, 1unit VGA 15pin, female to female, Tunit VGA 15pin, female to screw term, 1unit VGA 15pln, female to crimp pins, funlt S-Video to 110, 1unit 5-Yideo w/ 3.5m to 110, 1unit 5-Video w/ RCA red, white to 110, 1unit 2 RCA 1-white 1-red female to female, 1unit 3 RCA red, white, yellow to 110, 1unit 2 RCA 1-red 1-white female to 110, funit 2 RCA 1-red 1-white, female to solder, 1unit 3 RCA white, red, yellow female to female, funit 3 RCA red, green, blue female to female, funit 3 RCA red, green, blue to 110, 1unit 3.5mm, stereo jack female to female, 1unit Speakon, 4pin male to solder, 1.5unlt XLR, 4pin female to screw term, 1.5unit Binding post, rad, black pair, 1unit Serial 9pin, female to female, 1unit F Conn 75 ohm, female to female, funit BNC 75 ohm, female to female, funit 2 BNC 75 ohm, female to female, 1 unit 2 F Conn 75 ohm, female to female, 1 unit F Conn 75 phm, angled, female to female, 2 unit Series II bezet, 2port, keystone opening, 1unit, 10pk Series II hezel 2port, tracjack openings, funit, 10pk

Competible with
Legrand/Wiremold
Legrand | Ortronics connectivity
can be integrated into a full
line of poke-thru devices,
work surface portals, floor
boxes, raceway systems, and
architectural columns for
an the wall, work surface,
conference table, in floor, or
vertically in open spaces.



AUDIO | VIDEO CONNECTIVITY

TracJack® Solutions

TracJack footprint is front loading and supports a number of A/V and data modules. It's ideal for combining A/V with our high performance Clarity workstation products. The TracJack footprint can also be used with Series II through the use of an adapter bezel.

| DR-43700858 | OR-63700086 | OR-437000#5 |
|--------------|---|--|
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| OR-43700059 | DR-43708040 | DR-43790971 |
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| OR-43790047 | OR-63760044 | GR-43790025 |
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| OR-43700047 | GR-63700023 | 0R-63700006 |
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DR-43700021

DR-42100002

| PARTINO 4 | DESCRIPTION |
|-----------------|--|
| OR-60700058 | RCA red female to female |
| OR-63700086 | RCA green, female to female |
| OR-63700085 | RCA blue, female to female |
| OR-63700059 | RCA white female to female |
| OR-63700060 | RCA yellow female to female |
| OR-63700071 | RCA red to 110 |
| OR-43700083 | RCA green to 110 |
| OR-63700084 | RCA blue to 110 |
| OR-63700070 | RCA white to 110 |
| OR-83700047575 | RCA yellow to 110 |
| OR,63700046 | Pair of RCA to 110 (one red, one black), 180° exit |
| DR-63700025 | S-Video to 110 |
| OR-43700067 2 = | 3.5mm stereo jack |
| OR-63700023 | BNC 75 ohm, female to female |
| OR-83700006 | F Conn 75 ohm, female to female |
| OR-63700087 | F Conn 75 ohm, recessed, female to female |
| OR-63700021 | Speaker term set, red, black pair |
| DB-42100002 | Package of ten blanks |
| | |

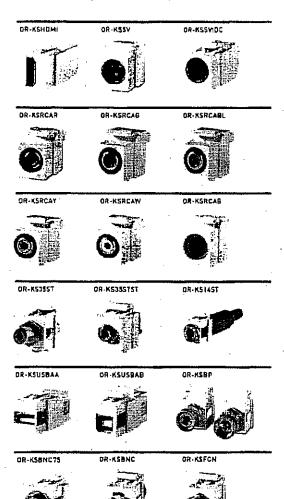
NOTE: Standard color for TracJack modules is tog white. Also svallable in -97 Wirsmold ivory and -88 white. Contact Ortronics sales department for other colors.

OR-63700087

AUDIO | VIDEO CONNECTIVITY

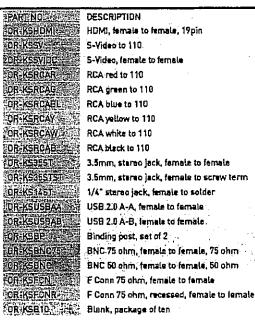
TechChoice® Keystone Solutions

TechChoice* Keystone footprint is a rear loading style module that comes in a variety of A/V connector types as well as Category 5e and 6 data connectivity. It's ideal for creating a quality solution for A/V and data connectivity. The keystone footprint can also be used with Series II through the use of an adapter bazel.



OR-KSFCNR

08-X5810

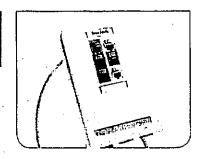


D legrand | Ortronics

MULTIMEDIA WORKSTATIONS

NOTE: All Ortronics product dimensions are tisted by width, height and depth unless specified otherwise.

Ortronics® Fib-or-Cop workstation solutions service a broad scope of multimedia applications, supporting sound cabiling practices in an attractive and user-friendly design.



Fib-or-Cop II

Fib-or-Cop II offers greater capacity, accommodating up to 12 fiber connections with protected exit from the bottom, and six copper connections, either TracJack® or Series II®. This is a truly segregated design, which allows access to one media without impacting the other. Bottom-exiting connections can be further protected with an optional snap-on shroud.

| OR-62100041 | GR-42100037 | OR-62100040 |
|-------------|-------------|-------------|
| OR-62100038 | OR-42100044 | OR-62100066 |
| | | |
| OR-62100068 | OR-62100050 | OR-42100052 |
| | | |



DESCRIPTION Base and cover for six TracJacks, 5" x 8" x 1.19" Base and cover for three Series II modules, 5" x 8" x 1.19" Package of five bottom adapter plates for four Tracilack modules Package of five protective bottom shrouds 3-ST duplex (6 fibers) multimode, beige adapters, phosphor-bronze alignment sleeves 3-ST duplex (6 fibers) single-mode, blue adapters, ceramic alignment sleeves 6-SC simplex (6 fibers) multimode, belge adapters, phosphor-bronze alignment sleeves 6-SC simplex [6 fibers] single-mode, blue adapters, ceramic alignment sleeves 3-SC duplex (6 fibers) multimode, beige adapters, phosphor-bronze alignment steaves 3-SC duplex (6 fibers) single-mode, blue adapters, ceramic alignment sleeves 6-LC duplex (12 fibers) multimode, beige adapters, phosphor-bronze alignment sleeves 6-LC duplex [12 fibers] single-mode, blue adapters, ceramic alignment steeves 6-MT-RJ (12 fibers) feed-through multimode, beige adapters 6-MT-RJ (12 fibers) single-mode, blue adapters

MULTIMEDIA WORKSTATIONS

NOTE: All Ortronics product dimensions are listed by width, height and depth unless specified otherwise

DR-JP44U

Clarity 6 and Clarity 5E Jak-Paks



The Jak-Pak is a compect, flexible, multi-user solution that can be structurally mounted or used in more temporary environments. Kits come supplied with Clarity 6 or Clarity 5E six-port/110 modules.



DESCRIPTION

Clarity & Jak-Pak, six-port multi-access outlet field termination kit, T568A/B

Clarity 5E Jak-Pak, six-port multi-access outlet field termination kit, T568A/B

OR-40950301

MUTOA Mac-Pak



The MUTOA Mac-Pak is a compact, flexible, multi-user solution that can be structurally mounted or used in more temporary environments. Kits come ready to accept flat Category 5e and 6 TracJack* modules and cables.



DESCRIPTION

'Accepts eight TracJacks, black housing

Multimedia Outlet (MMO)

Ortronics* Multimedia Outlet (MMO) is a high capacity, field configurable workstation housing. The MMO comes with three blank panels with cable access knockouts. A wide range of MMO panels are available to support your specific applications. MMO mounts directly to any single or double gang recessed wall box or to any surface. Labeling is supplied.





PART NO DESCRIPTION

Cover base and three blank panels, 6.75° x 6.75 x 1.68°, fog white

MMO Panels

DR-41200004

OR-41200010





OR-41200012

OR-42100809







DESCRIPTION

Accepts two 1-unit Series || modules

Accepts one fiber adapter panel, see fiber section

Accepts two OR-42100009 TracJack® adapters

Accepts three Traclacks

U

□ legrand | Ortronics

ACCESSORIES

NOTE: All Ortronics product dimensions are listed by width, height and depth unless specified otherwise.

Surface Mount Outlet Boxes

Ortronics surface mount outlet boxes are compatible with all Ortronics single and double gang faceplates. These boxes provide a mounting surface for faceplates or can be attached to recessed boxes to provide greater cable storage capacity.



OR-48300184

DR-70100022

OR-70785070



PART NO
DESCRIPTION

OR-403001851
Single gang, low profile, fog white, 3" x 4.7" x 1.5"

OR-403001851
Single gang, fog white, 3" x 4.7" x 2"

CR-4030018513
Electrical ivory

Adhesive-back single gang magnet

Double gang, fog white, 4.9" x 4.7" x 2"

Adhesive-back double gang magnet

Double-sided adhesive kit (use two for double gang)

Compatible with Wiremold 2700, 2800 and 2900 raceway series.

OR-40300010



Extension Plate

Ortronics extension plate provides an additional .9" of depth behind single gang faceplates for bend radius requirements or cable storage.

PART-NO. OR-40300010

DESCRIPTION

Single gang extension plate, fog white, 2.75" x 4,5" x .9"

LABELING AND DESIGNATION SOLUTIONS

DR-70400411



Work Outlet Station Designation

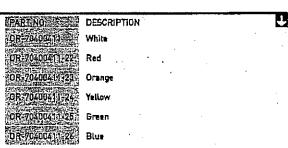
Color-coded designation strips provide easy identification for workstations. Designation strips are supplied in 8.5" x 11" sheats of laser feed paper.

Supported by the LabelMo XL templates.

LabelMo XL Labeling Templates

The LabelMo XL templates provide a new format for your labeling needs that increases flexibility and ease of use.

- Provided in an easy-to-use Excel format
- Uses our standard 8.5" x 11" label stock



NOTE: Ten sheets per package, % labels per sheet.

PART NO. OR-70400202

Workstation, replacement designation label/cover kit, package of ten

GR-70400217

Jack Designation Tabs

Ortronics* Jack designation tabs snap into Series II modules and TracJacks to identify each port. Accommodates two one-port modules. Standard color is fog white. Package of 12.

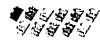
PART NO SERVICE OR-70400219

DESCRIPTION

Jack designation tabs

Color-Coded icens





Ortronics color-coded designation tabs are for port identification on patch panels and most workstation products. The tabs are available in 606 standard colors with a voice or data icon or blank, Package of 100.

OR-403 Manufacturer Number

Coloring 100-Black

24=Yellow

23-Orange: 25=Green, 27=Purple

00

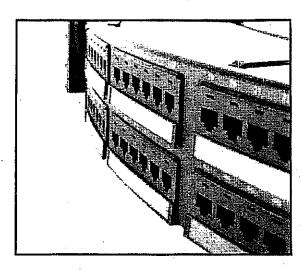
Merking 1=Voice Ordering example: 2=Data To order a red voice tab, 5-Blank use the following part number 0R-40322100

NOTE: For a complete set of voice and data tabs in all colors, use order number DR-40300174.

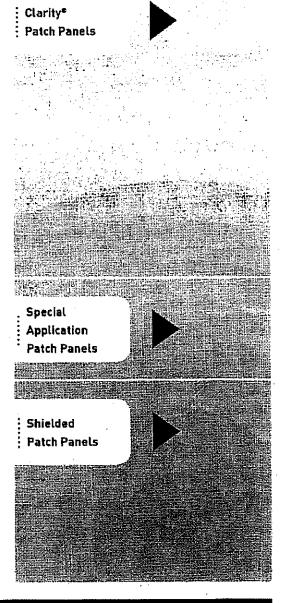
HIGH PERFORMANCE STRUCTURED CABLING PRODUCTS & SOLUTIONS

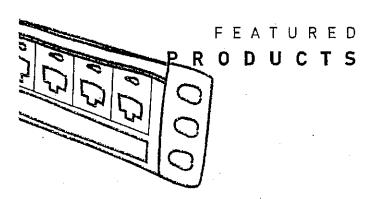
COPPER CONNECTIVITY

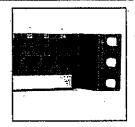
Copper Patch Panels



Legrand | Ortronics continues to lead the industry in patch panel design by fully supporting all of the internal and alien requirements of Category 6A/10 Gigabit Ethernet in a traditional multi-port adapter panel format. This accomplishment builds on the first ETL independently verified patch panel to meet the Category 6 component specification. Equally important, Ortronics® panels excel in performance white supporting ease of use and preferred installation practices. So, whether it is 10 Gig. PoE, Category 6 or voice, 110 termination or 50-pln, high density, standard density, angled or hinged, Legrand | Ortronics has a quality panel to serve your application.







Clarity 6A/10G Patch Panels P.46



P.46 Clarity 6A/10G Flat Panels



P.47 Clarity 6 and Clarity 5E Flat Modular to 110 Patch Panels



Clarity 6 and Clarity 5E Modular to 110 Mini Patch Panels



P.48 . Angled & Curved Clarity5E Claritys and Modular to 110 🚉 Patch Panels ::



P.49 Clarity* Maximum Density Patch Panels



P.50 Clarity 6 and Clarity 5E Panels with Hinged Cable Management



P.50 Clarity Rear Loaded Jack Panel, Kits



P.52 Category 5a ann Calegory 6 RJ45 Feed Through Patch



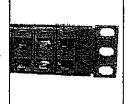
Middular Quadframe 19" Telco Patch Panels



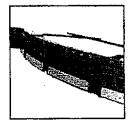
P.53 Category-cA Shelded Patch Panels



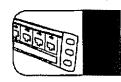
P53 Calegory Se Shletd-di Modular 2 to 110-batch 1 Panels



Clarity 6 & Clarity 5E Maximum Density Patch Panels R49



Clarity 6 & Clarity 5E Curved Patch Panels P.48



CLARITY® PATCH PANELS

OR-PHD4AU48



OR-PHASAU24



Clarity 6A/10G Patch Panels

Clarity 6A/10G patch panels are available in the traditional multi-port panel format with 6-port modules and the added flexibility of flat or angled versions. Utilizing innovative methods for circuit isolation, the Clarity 10G multi-port patch panels support all alien and internal performance requrements of EEE 802.3an (10GBase-T) and TIA Augmented Category 6 (6A) cabling specifications without requiring the use of Individual jacks for your panel termination, Clarity 10G multi-port panels support traditional (linear 110) termination practices with mechanical accommodations for easy termination of the larger conductors of 10 Gig cables, providing a labor-saving alternative to the individual jack panel.

Clarity 10G angled patch panals utilize a unique recessed angle design to help direct cords with greater ease to vertical rack or cabinet menagement within a lower profile. This design provides an improved alternative for applications that don't offer rack space for horizontal management.

Features

- More transparent signal path with Clarity 109 cords
- Standard termination practice-110 tool
- IDC towers designed to accept larger 10
 Gig cable conductors
- Essy-to-follow universal wiring label is quick and user-friendly to eliminate confusion
- High density panels include label fields and year cable management
- Meets TIA 568C.2 Catagory 6A component specifications
- a Backwards compatible to Category & and Category Se

Clarity 6A/10G Flat Patch Panels

PARTING: LOR EHDAUIZA OR PHDEAU48 DESCRIPTION 24-port flat Clarity 6A/106 patch panel, T568A/B, 1.76"x 19" (1RUI

48-port flat Clarity 6A/109 patch panel, T66BA/B, 3.5"x 19" [2RU]

Clarity 6A/109 Angled Patch Panels

EPARLINOS DESCRIPTION
24-port angled
panel, T568A/E
OR; PHAKAU4E 48-port angled
panel, T568A/E

24-port angled Clarity 6A/186 patch panel, T568A/B, 1.75°x 19" [1RU]

48-port angled Clarity 6A/10G patch panel, T568A/B, 3.5"x 19" (2RU)

Ciarity 6A/100 Curved Patch Panels



DESCRIPTION

24-port curved Clarity 6A/100 patch

panel, T568A/B, 1.75"x 19" (1RU) 48-port curved Clarity 6A/10G patch panel, T568A/B, 3.5"x 19" (2RU)

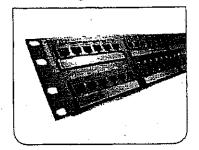
Clegrand Ortronics

CLARITY® PATCH PANELS

NOTE: An eletronics product sintensions are listed by endth, height and depth unless specified interwise Clarity patch panels combine the Ortronics commitment to ease and reliability with the ETL verified TIA-568C.2 Category 6 or Category 5e performance of center tuned connector technology. These 110 termination 19" panels are available in six-port and

eight-port module groupings, in 12, 24, 48, and 96-port sizes. Panels provide extensive designation abilities, Icon compatibility and rear cable management.

- ETL verified to TIA component specifications to ensure component performance
- Center tuned to Clarity patch cords—more transparent mated union and higher channel performance
- Universal wiring supports T568A and B installations with linear 110 termination.
- IDC housing handles both Category 6 and Category 5e conductors.
- Supplied rear cable management supports cabling best practices
- High density design maximizes rack utilization



DR-PHOAAUZA



Clarity 6 and Clarity 5E Modular to 110 Patch Panels

CLARITY 6



DESCRIPTION

24-port, T568A/B, height 1.75°, 1 rack unit 48-port, T568A/B, 3.5"x 19" 2 rack units %-port, T568A/B, height 7", 4 rack units

08-PSD64U24



DR-PHD&BUZA



els with Six-Port Modules

| Rerny Standard | Decisity Patch Pan |
|--|--|
| CLARITY 6 | CLARITY 5E |
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| AND THE PARTY OF T | |
| OR-PS066U96 | OR-PSD5E4096 |
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DESCRIPTION

12-port, T568A/B, height 1.75°, 1 rack unit 24-port, T568A/B, height 3.5", 2 rack units 48-part, T568A/B, height 5.25"; 3 rack units 96-port, T568A/B, height 10.5", 6 rack units

Clarity High Density Patch Panels with Eight-Port Modules

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DESCRIPTION

24-port, T568A/B, height 1.75*, 1 rack unit 48-port, T568A/B, height 3.5", 2 rack units 76-port, T568A/B, height 7", 4 rack units

OR-PMP412H



OR-PMP41289



Clarity 6 and Clarity 5E Modular to 110 Mini **Patch Panels**





DESCRIPTION

12-port, T568A/B, hinged mounting. 12-port, T568A/B, 89D mounting

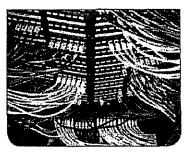
□ legrand" | Ortronics

CLARITY® PATCH PANELS

NOTE: All Ortronics product dimensions are listed by width, height and depth unless specified otherwise. Clarity angled panels utilize a unique recessed angle design to help direct cords with greater ease to vertical rack or cabinet management within a lower profile. This design provides an improved alternative for applications that don't offer rack space for horizontal management, Rugged rear cable management is supplied to support best cabling practices.

Ortronics® Clarity curved patch panels offer yet another alternative for patch cord management. Built around the elevated performance of Clarity 6 and Clarity 5E, these high density patch panels feature a new look, utilizing a patented, recessed, curved design to help direct cords to vertical rack or cabinet management within a lower profile. This design provides another alternative for installations which have limited rack space for horizontal management.

- Lower mounted profile directs cords more easily to vertical management.
- Deeper rear cable support bar addresses larger Category 6 cable designs
- ETL verified category performance
- Compatibility with standard 110 tool termination practices
- Time saving termination with easy lace multi-port adapters
- Rugged construction
- Label fields and icon compatibility
- Work especially well with the increased depth and enhancements of Mighty Mo* 6 and Mighty Mo 10 cable management racks



Angled Clarity 6 and Clarity 5E Modular to 110 Patch Panels



Clarity 6 and Clarity 5E Curved Patch Panels



CLARITY® PATCH PANELS

NOTE: All Ortromot product dimensions are listed by width, height and depth unless specified otherwise.



Clarity 6 & Clarity 5E **Maximum Density** Patch Panels

Ortronics* maximum density patch panels offer 48 ports of Clarity 6 or 5E performance in 1 rack unit (1.75" x 19"). Panels are supplied with 24 rear-loading dual port termination (Clarity 6 or SE) black modules.



DESCRIPTION

1 rack unit; 19"x 1.75", maximum density, Clarity 6 .

1 rack unit, 19"x 1.75", maximum density, Clarity 5E

NOTE; Panels are also available unloaded. Dual port jacks are ordered separately. See below (Dual port jacks available in six colors 1.

OR-PHOUABIU



0R-09600-36

OR-015E00-26





Clarity 48-port **Maximum Density** Unloaded Panels & Dual Jacks

Ortronics 48-port maximum density panel kit utilizes Clarity 6 and Clarity 5E dual panel jacks that can be terminated and snapped in from the back of the panel. A variety of panel configurations allow a wide choice of field configurable easy to install horizontal cross connects utilizing only 1 rack unit. The panel is supplied without the jacks.



DESCRIPTION

48-port, maximum density panel, 19" x 1.75", with rear wire management



DESCRIPTION

Panel jack, dual, Clarity 6, T568A/B. 8 pos, black, 180* Panel jack, dual, Clarity 6, T568A/B, 8 pos. blue, 180* Panel Jack, dual, Ctarity 6, T568A/B, 8 pos, red, 180° Panel jack, duel, Clarity 6, T568A/B, 8 pcc, orange, 180° Panel jack, dual, Clarity 6, T668A/B, 8 pos, yellow, 180° Panel jack, dual, Clarity 6, T568A/B. 8 pos, green, 180° Panel jack, dual, Clarity 5E, T568A/B,

8 pos, black, 180* Panel Jack, dual, Clerity 5E, T568A/B, 8 pos, blue, 180° Panel Jack, dual, Clarity 5E, T668A/B,

8 pos, red, 160° Panel Jack, dual, Clarity 5E, T568A/B,

8 pes, orange, 180° Panel jack, dual, Clarity 5E, T568A/B, 8 pos, yellow, 180°

Panel Jack, dual, Clarity 5E, T568A/B, 8 pos, green, 180°

PATCH PANELS

NOTE All Ortronics product dimensions are listed by width, height and depth unless specified otherwise

OR-PHAPJUAB



OR-PJ400-00



Clarity Rear-Load Jack Panel Kits

Ortronics* rear-loading individual Jack panels utilize reduced-size Clarity 6 and Clarity 5E panel jacks that can be terminated and snap-in from the back of the patch panel. A variety of panel configurations allow a wide choice. of field configurable, easy to install horizontal cross connects. Panels are supplied without jacks. Jacks can be ordered individually or in full carton quantities of 24.

Rear-Load Panels (See panel jack part no, below panel no.)

PART NO. OR-PHAPJUZA OR-PRAPJU48 GREPHAPJU72

OR PHOPJU72

DESCRIPTION

24-port, panel jack panel kit, angled, unloaded, Frack unit, 19" x 1.75", HD 48-port, panel jack panel kit, angled, unloaded, 2 rack units, 19" x 3.5", HD 72-port, panel jack panel kit, angled, unloaded, 2 rack units, 19" x 3.5", HD 24-port, panel jack panel kit, flat, unloaded, 1 reck unit, 19" x 1.75", HD 48-port, panel lack panel kit, flat, unloaded, 2 rack units, 19" x 3.5", HD 72-port, panel jack panel kit, flat, unloaded, 2 rack units, 19" x 3.5", HD

Rear-Load Panel Jacks

PART NO. TO VIS OR-PJAA+00 QR-PJ6-00

OR-PJ56-00

DESCRIPTION Panel jack, Clarity 6A, T668A/B, 8 pos, black, 180° Panel jack, Clarity 6, T568A/B, 8 pos, black, 180° Panel jack, Clarity 5E, T568A/B, 8 pos, black, 180°

NOTE: Clarity panel jacks are available in these colors: -36 blue, -42 red, -43 orange,-44 yellow, -45 green. Replace tail code to the end of part number.

OR-PHD&&UZ&HM



OR-PHDSEAUATHM



Clarity 6 and Clarity 5E Patch Panels with Hinged Cable Management

Hinged Clarity panels include cable management panels to assist in applications with limited rear access. Panels can be terminated in the hinged-down position while resting on management rings. Panels can also be mounted back-to-back on our 16.25" deep Mighty Mo racks.



Clarity High Density Hinged Panels with Six-Port Modules



height 3.5", 2 rack units

DESCRIPTION 24-port, 756BA/B,

48-port, T568A/B, height 7", 4 rack units

NOTE: 24-port high density panels have 1.75" cable management panels with 1.7" x 3.5" rings. All other hinged panels have 3.5" cable management. panels with 3" x 4" rings.

Clarity Standard Density Hinged with Six-Port Modules

CLARITY 6 5 CLARITY DE SAN PARTINO OR-P5D66U24HM



DESCRIPTION -24-port, T668A/B, height 7", 4 rack units

4B-port, T548A/B, height 8.75", 5 rack units

NOTE: 24-port high density panels have 1.75" cable management panels with 1.7" x 3.5" rings. All other binged panels have 3.5" cable management panels with 3" x 4" rings.

PATCH PANELS

NOTE: All Orronics product dimensions are listed by width, height and depth unless specified otherwise

DR-481045292



OR-401045286



Patch Panel Kits

Ortronics* 19" wide panel kits provide the ability to field configure your own patch panels. Kits are available to support front-loading TracJack* or Series II* modules, providing panel options to support a wide range of applications.
TracJacks and Series II modules are ordered separately.

Standard Density TracJack Patch Panel Kits



DESCRIPTION

16 TracJack panel kit with shelf, height 1.75°, depth 4°, 1 rack unit 24 TracJack panel kit with shelf, height 3.5°, depth 5°, 2 rack units 32 TracJack panel kit with shelf, height 3.5°, depth 5°, 2 rack units 48 TracJack panel kit with shelf, height 5.25°,

(Traclacks not included, see pg. 30)

Standard Density Series II Patch Panel Kits



DESCRIPTION

depth 6", 3 rack units

8, 1-unit Series II modules, panel kit with shelf, height 1.75", depth 4", 1 rack unit 12, 1-unit Series II modules, panel kit with shelf, height 3.5", depth 5", 2 rack units 16, 1-unit Series II modules, panel kit with shelf, height 3.5", depth 5", 2 rack units 24, 1-unit Series II modules, panel kit with shelf, height 5.25", depth 6", 3 rack units

(Series II modules not included, see pg. 36)

SPECIAL APPLICATION PATCH PANELS

OR-PHD 1002148



10/100 Base-T Fast Ethernet Patch Panels

Ortronics 10/100 Base-T panels provide a 50-pin connector interface between 25-pair cables and Fast Ethernet hubs. Twelve jacks are wired via a printed circuit board from each industry standard RJ21 50-pin femala connector. Panels provide front and rear label fields. Use with 849E cable assemblies.



DESCRIPTION

24-port, 8-position 1, 2, 3, 6, height 1.75°, f, rack unit 48-port, 8-position 1, 2, 3, 6, height 3.5°, 2 cack units

□ legrand | Ortronics

SPECIAL APPLICATION PATCH PANELS

NOTE. All Octronics product dimensions are listed by width, height and depth unless specified otherwise.

OR PHORES148



Category 5e Telco Panel

Ortronics® Category 5e 25-pair panels provide a 50-pin connector interface (standard RJ21 wiring) between Category 5e 25-pair cable Gigabit Ethernet hubs requiring full 4-pair cabling. Panels provide front label fields. Use with 845E cable assemblies.

RARTING -OR PHOSE 2124 OR-PHASE2148

DESCRIPTION

24-port, flat panel, T568B, height 1,75", 1 rack unit

48-port, flat panel, T568B, height 3.5", 2 rack units 24-port, angled panel, T568B, height 1.75°,

48-port, angled panel, T5688, height 3.5", 2 reck units

DR-PHOSEFF24



Category 5e and Category 6 Feed-Through Patch Panels

Ortronics Category 5e and Category & RJ45 (ead-through panels provide interface between two RJ45 plugs.



DESCRIPTION

1 rack unit

24-port, RJ45, feed-through patch panel, Cat 5e, T568A/B, 19"x 1.75", 1 rack unit 24-port, RJ45, feed-through petch panel, Cat 6, T568A/B, 19"x 1.75", 1 rack unit

OR-PHD&FF2&



08.404004428

OR-#08004345



Modular Quadframe 19" Telco Patch Panels

Ortronics modular quadframe 19" telco panels provida RJ21 50-pin connectors wired to two-, four-, six-, or eight-contact jacks. These panels are commonly used to support voice, alarm, and low speed data applications. Available jack wiring: RJ11, RJ14, 8-position [4-5].



DESCRIPTION

24-port, 50-pin talco gty 1, 6-posttion RJ11, pins 3 and 4, height 3.5., 2 rack units 48-port, 50-pin telco qty 2, 6-position RJ11, plns 3 and 4, height 5.25°, 3 rack units 48-port, 50-pin telco qty 4, 6-position RJ14, pins 2-5, height 3.5", 2 rack units 48-part, 50-pin telco qty 2, 8-position, pins 4 and 5, height 5.25", 3 rack units

-



High Density Modular 19" Telco Patch Panels

Ortronics 19" wide high density modular telco panels provide RJ21 50-pin connectors wired to two-, four-, six-, or eightcontact 8-position jacks. These punels are commonly used to support voice, alarm, and low speed data applications.



DESCRIPTION

24-port, 50-pin talco qty 1, 8-position, pins 4 and 5, height 1.75", 1 rack unit

24-port, 60-pin telco qty 4, B-position, pins 1-8*, height 1.75*, 1 rack unit

48-port, 50-pin teles aty 2, 8-position, pins 4 and 5, height 3.57, 2 rack units

48-port, 50-pin telco qty 8, 8-position, pins 3-6", height 3.5", 2 rack units

48-port, 50-pin talco aty 8, 8-position, pins 1-8*, height 3.5", 2 rack units

96-port, 50-pin telco qty 4, 8-position. pins 4 and 5, height 7, 4 rack units

NOTE: *T568B wired 8-position jacks

52

For additional product availability visit www.legrand.us/ortronics or contact sales at 800-934-5432

SHIELDED PATCH PANELS

NOTE. All Ortronics product dimensions are fisted by width, height and depth unless specified otherwise

OR-PHOPJS4A24



Clarity* Shielded Jack Panels

Ortronics* shielded panels offer rear loading shielded jacks to support improved ease of termination and installation from the back of the panel.



DESCRIPTION

24-port shieldad, Category 6A, 1 rack unit, 19" x 1:75" 24-port shielded, Category Se, 1 rack unit, 19" x 1:75"

OR-PHATKS 4A24



Category 6A Shielded Patch Panels with Rear Cable Management



DESCRIPTION

24 port, Flat 1RU patch panel with 24 TKS6A jacks

48 port, Flat 2RU patch panel with 48 TK56A Jacks

24 port, Angled 1RU patch panel with 24 TKS6A jacks

48 port, Angled 2RU patch panel with 48 TKS6A Jacks

OR-PHOTKSUAR



Unloaded Shielded Patch Panels



DESCRIPTION

Unloaded 24-port, flat TRU patch panel for TKS jacks

Unloaded 48-port, flat 1RU patch panel for TKS jacks

Unloaded 24-port, angled 1RU patch panel for TKS jacks

Unloaded 48-port, angled 1RU patch panel for TKS jacks

Category 6A Shielded self-terminating keystone lack

OH-#47045187



Category 5e Shielded Modular to 110 Patch Panels

Shielded Category 5e modular to 110 patch panels are fully encased to protect connections from EMI and RFI and have a removable cover for easy access to terminations.

PART NO. OR-867045187 DESCRIPTION

24-port shielded Category 5e patch penuls, height 1.75", depth .95", 1 RU



□ legrand Ortronics

CLARITY® POE PATCH PANEL

MRTE All Originals product dimensions are listed by moth, height and depth unless specified otherwise

Perfect for VoIP, wireless access points, security cameras and more, Ortronics® Clarity PoE Patch Panel eliminates the need for a separate power supply and is the most cost effective way to deploy power where it is not easily accessible. It is available as a single unit or can be purchased in stages to delay the cost of the power until you're ready. And, the panel is designed to allow easy access to cable terminations even when active.

- Compliant with IEEE 802.3af power specifications
- LED indicators on front of panel easily identify the real time powering status of each port
- Serial port provides installer detailed information and control of each port
- Order as a single unit that includes 16-port panet, PoE controller and power supply or as separate components for a staged deployment
- Clarity PoE panels only occupy 1 rack space
- 260 watt power supply supports IEEE 802.3af maximum of 15.4 watts per channel measured at the IDC
- Utilizes standard 110 termination
- Meets TIA/EIA-568-B.2 Category 5e component specifications
- Center tuned Clarity technology for elevated performance
- More transparent signal path when used with Clarity cords.
- . Supplied label fields and icon compatible

Clarity® PoE Patch Panel

OR-PPSECMS14





DESCRIPTION

Cturity 5E 16-port PoE powered penal, 240 watt, 1.75"x 19" x 10.5", 1 rack unit, T568A/B Clarity 5E 16-port PoE panel, without power or controller, 1.75" x 19", 1 rack unit, T568A/B Power supply, 260 watt, with output cable, for use with OR-PPSEUPF16 Control module for 16-port PoE, for use with OR-PPSEUPF16

LABELING AND DESIGNATION SOLUTIONS

NOTE. All Ortronics product dimensions are listed by width, height and depth unless specified otherwise

OR-78400408

Six- and Eight-Port Module Patch Panel Designation

Color-coded designation strips can be used in six or eight-port patch panel module front bezels. Designation strip sheets are 8.5" W x 11" H. Support by the Label XL templates.

LabelMo XL Labeling Templates

The LabelMo XI, templates provide a new format for your labeling needs that increases flexibility and ease of use.

- m Provided in an easy-to-use Excet format.
- Uses our standard 8.5" x 11" label stock.

Six-Port Module Patch Panel Designation

PART NO DESCRIPTION OR-70400408 White OR-70400408-22 OR-70400408-23 Orange OR-70400408-24 Yellow OR-70400408-25 Green OR-70400408-26 Blue

NOTE: Ten sheets per package, 48 labels per sheet.

Eight-Port Module Patch Panel Designation

PARTINO DESCRIPTION OR 70200209 OR-70400409-22 Red OR-70400409-24 Yellow OR-204004093263 Blue

NOTE: Ten sheets per package, 24 labels per sheet.

Eight-Port Module Thin Patch Panel Kit Designation

PARTINOT DESCRIPTION OR-704006467 White

NOTE: Ten sheets per package, 44 tabets per sheet

5)x-Port Module Thin Patch Panel & Jak-Pak Designation

PART NO DESCRIPTION OR: 70400691 White

NOTE: Ten sheets per package, 88 labels per sheet.

Six-Port Module Thin Designation Holder

PART NO.

OR 20400692 Bezel color for maximum density patch panels

NOTE: Eight required per patch panel.

Replacement Designation Strip Covers

GR-70400141 QR-70400438 CR-70400659 OR-70400789

PART NO DESCRIPTION

Six-port module, package of four, yellow, Clarity 106

Six-port module, package of four, blue, Clarity 6

Six-port module, package of four, green, Clarity 5E. Eight-port module, package of four, blue,

Eight-port module, package of four, green, Clarity 58

Color-Coded Icons

●最内外数例

1990

Color-Coded icons

Ortronics color-coded designation tabs are for port identification on patch panels and most workstation products. The tabs are available in 606 standard colors with a voice or data icon or blank. Package of 100.

OR-403 Manufacturer Number

OR-70400790=

ХΧ Coloring Ota-Filack

Clarity 6

Murking 1=Voice 23=Orange, 2=Date 5.Black

Ordering example: To order a red voice tab, use the following part number OR-40322100

22=Red 25=Green,

13-Electrical Ivory

24=Yellow 27=Purple

26-Blue07-Fog While,

NOTE: For a complete set of voice and data tabs in all colors, use order number OR-40300174

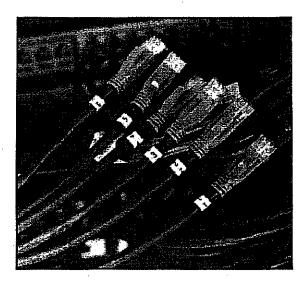
For additional product availability visit www.legrand.us/ortronics or contact sales at 800-934-5432

HIGH PERFORMANCE STRUCTURED CABLING PRODUCTS & SOLUTIONS

COPPER CONNECTIVITY

SNAP™

Pre-Terminated Copper Cabling System



Quick and reliable data center installations are a SNAP with the latest innovation from Legrand (Ortronics)

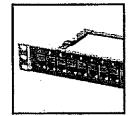
In today's workplace, where network downtime is costly and detrimental to any business or organization, bringing a new data center online must be completed as quickly as possible. Quick and easy installations that guarantee reliable performance are more critical than ever.

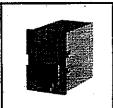
Clarity* SNAP Pra-Terminated Copper Cabling System offers the above-the-standards performance of Clarity connectivity in a custom terminated cable assembly system that's ready to plug and go. Its innovative modular design combines high performance and installer friendly features with the quick deployment and reliability of a factory terminated and tested cabling system.

Cable Assemblies



Patch Panels





Workstation Modules

RODUCTS

□ legrand | Ortronics



SNAP™ PRE-TERMINATED COPPER CABLING SYSTEM

The SNAP connection utilizes a bifurcated termination method, placing one mating half of the termination onto the horizontal cable and the other on the 8-position T568 jack interface. This approach reduces the size of the terminated cable ends, making it easier to pull and lace cables through racks, cabinets, cable management systems, and pathways. In addition, individual cable ends of bundled cables can be passed through one at a time, as compared to some alternative designs where the connections are bundled into modules and must be pulled through pathways and openings that way.

As a result, SNAP cable assemblies route faster, with less interference from connector ends within congested pathways. And, the robust cable ends are ruggedly designed to handle the physical challenges of any installation. When in position, these cable ends simply SNAP into the back of the panel or workstation outlet, completing the termination. It's a SNAP!

The Clarity SNAP system also offers the added assurance of the premium performance of Clarity connectivity. The SNAP bifurcated termination offers improved pair-to-pair isolation and improved pair balance through the connector, while berriers located on the sides of these terminations enhance alien noise performance. The result is improved channel immunity from internal and external noise, which ensures consistently high performance links and channels.

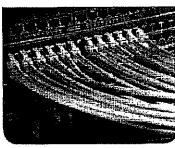
The benefit of these technological advancements is a consistently high performance cabling system that is fast and simple to install and enables quick network deployment, increased reliability, and lower total cost of ownership. Both the electrical design of SNAP and the additional controls and in-process testing only available in a factory environment lead to improved consistency in channel performance, to improve the overall average results that you can expect from your installation.

The system has expanded to include port replication

Port replication enables a separate patch panel to act as the administrative cross connect for servers and switches. Factory assembled port replication cable sets and panels provide a quick and easy pretested option.

Port replication is an increasingly popular method of protecting modular jacks in both switches and servers. Repeated use of these modular jacks as an administrative connection to horizontal cabling can cause damage to the jack port. Port replication enables a separate patch panel to act as the administrative cross connect instead of using the switch or server ports directly, minimizing the risk of harm to your active equipment. Should the replicated ports become damaged over time, the replacement cost and network downtime are significantly less than the expense of replacing a switch or server port.

Ortronics® Clarity SNAP Port Replication [PR] raises the bar in performance and speed of installation by utilizing the SNAP system's innovative design to easily integrate factory-terminated cables into a port replication application. SNAP PR cable assemblies use RJ45 terminations on the server/switch side and SNAP cable terminations on the patch panel side to enable the SNAP patch panel as the cross connect.



□ legrand | Ortronics

SNAP™ CABLE ASSEMBLIES

Each Clarity® SNAP cable assembly includes an identification tabel, which includes part number, performance level, and serialized quality assurance number for future traceability.









OR-PC52P04XXXXX



Multiple Cable Harnesses Matrix

Choose your cable type, number of cables, color, tength and leg styte using the blue shaded code. Note: Contact sales for leadtimes and nins for other cable colors.

| | CABLE TYPE | # OF CAE | LES | COLOR | | LENGTH FEET, (INCLUDES LEGS) | END 1 LEGS | END 2 LEGS | |
|----------|---|---------------------------|-----|-------|-----|---------------------------------|-----------------|-------------------------------------|----|
| | 10G Planum LM2000 Planum | Kos é spiral- bound | | Blue | Öğ. | , | | no stagger w/ protective sock | |
| | LM2000 Riser LM1000 Planum | B bundle | | White | 02 | | protective sock | stagger left w/ protective sock | 門に |
| ď. | LM1990 Riser LM350 Plenum LM350 Riser | 6 in mest | TY. | 4 | | xxx | protective sock | stagger right w/ protective sock | |
| | LMJ30 KISEF | | | | | | pulling sock | no stagger w/ pulling sock | が記 |
| | | | | 1 | | | pulling sock | stagger left w/ pulling sock | 心概 |
| 如 理解的 | | | | | | | | stagger right w/ pulling sock | 格是 |
| 마스티 | | YP | ΑÞ | | ለበ | XXX | | 1 | 1 |

Example:

FQ:

69 66

XXX

ŀ

Single Cable Assembly Matrix

Choose your cable type, color, tength and leg style using the blue shaded code.

Note: Contact sales for teadtimes and mins for other cable colors.

| | CABLE TYPE | COLOR | LENGTH FEET, (INCLUDES LEGS) | CABLE NUMBER LABEL |
|------------|---|------------------------------|---------------------------------|--|
| PCF Iso | 10G Ptenum LM2000 Ptenum LM2000 Riser LM1000 Ptenum LM1000 Riser LM350 Ptenum LM350 Riser | Blue DP White DP White | 108 109 | No label 00% #1 01% #2 172 #3 203 #99 99 |

Example:

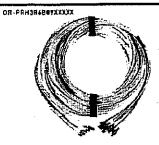
PCS

XXX

01

SNAP™ CABLE ASSEMBLIES





Multiple Cable Harnesses Matrix

Choose your cable type, number of cables, color, length and leg style using the blue shaded code. NOTE: More colors are coming soon.

| CABLE TYPE | # OF CABLES | COLOR | LENGTH FEET, (INCLUDES LEGS) | END 1 LEGS RJ45 END | END 2 LEGS SNAP END |
|-----------------------------|------------------|-----------|---------------------------------|-------------------------------|---|
| | P 6 in a spirel- | Blue D6 | | | no stagger w/ protective sock |
| LM1000 Riser | Réinmesh 6M) | White 109 | | | stagger left w/ protective sock |
| LM350 Plenum LM350 Riser | R. | | ××× | protective sock | stegger right w/ ### protective sock |
| | | | ~ . | pulling sock | no stagger w/ pulling sock |
| | | | | pulling sock | stagger left w/ pulling sock |
| | | | | stagger right w/ pulling sock | stagger right w/ pulling sock |

XXX

Single Cable Assembly Matrix

Example: PRH

Choose your cable type, color, length and leg style using the blue shaded code. Contact sales for other color regulrements

| CABLETYPE | COLOR | | LENGTH FEET. (INCLUDES LEGS) | CABLE NUI | MBER |
|---|--------|------|---------------------------------|-------------------------------|-----------------------------|
| LM2000 Plenum LM2000 Riser LM1000 Plenum LM1000 Riser LM350 Plenum LM350 Riser | R Blue | 8.08 | xxx | No # #1 #2 #3 #99 | 90 901 02 03 09 |
| PRS | 3P | 06 | XXX | | 01 |

Example:

SNAP™ PATCH PANELS

Clarity® SNAP patch panels offer improved rear cable management with the addition of an adjustable depth rear management bar. The rear portion of these bars is also removable to provide more working room for the initial termination of panels. After cables are SNAP terminated, the rear bars are attached and adjusted to the depth that best matches the cable and rack selections.

SNAP panels are also supplied with SNAP-on positioning bend limiters. These plastic cable management aids assist with maintaining proper bend radius of all cables white minimizing the stress on any one cable. This is especially beneficial for cable bundles, as this allows the dissipation of any stress across the entire bundle instead of any one cable termination.

SNAP Panels



OR-PPCA44U4#



OR-PHDSJUZ4



DR-PJSN4-34



Flat Panels

| , | |
|--|---|
| LPART NOT SEE | PARTINO |
| FLAT 24 PORT | FLAT 48-PORT |
| ELECTRONIC CONTRACTOR | 100000000000000000000000000000000000000 |
| ORTRPCF610U24 | OR-PPCF410U48 |
| | Carrie Carrie |
| THE PARTY OF THE P | |
| DR PPCF66024 | OR-PRCF66U4B |
| PRINCIPLE | AND THE PROPERTY OF |
| OR-PPCF5E6U24 | OR-PPEF5E6048 |
| | |

DESCRIPTION

Clarity 10G flat panels with 6-port modules Clarity 6 flat panels with 6-port modules Clarity 5E flat panels with 6-port modules

Angled Panels

| , a | |
|-----------------|-----------------|
| PARTNO | PARTING A. |
| ANGLED 24: PORT | ANGLED 48-POR |
| OR PREAMOUZE | OR PROABIDUAR |
| OR PROAGUZET | OR PROA66UAB |
| | |
| OR PROABEAUZA | OR PPEASE 6U 48 |

DESCRIPTION

Clarity 10G angled panels with 6-port modules Clarity 6 angled panels with 6-port modules Clarity 5E angled panels with 6-port modules

Panet Jack Panets without Jacks

| Panet | Jack P | anels | Withou | ut Jac | KS |
|---------|------------|--|---------|--------|--------|
| PART | | ************************************** | DADE | NO. | *** |
| | | | . C O 6 | | 71073 |
| FEAT | 4 POR | To E | FLAT | 48-PO | RI |
| | MACH! | M. W. | HO TO | | 200 |
| DR-P | DSJU2 | 4500 | OR-R | IASJÜ | 24.0 |
| | | | | | |
| 1000000 | 建筑设 | 翻桌 | 的影響 | | dial A |
| URVRH | DSJUZ | 86经 | ORAR | ASIL | 48 |
| | | 1000 | | 223 | 194 |

DESCRIPTION

24-port 48-port

Panel Jacks

| DESCRIPTION |
|---------------|
| Clarity 106 🐭 |
| Clarity 6 |
| Clarity 5E |
| |

NOTE: SNAP PJs available colors -00 black ,-36 blue, -42 red,- 43 orange,-44 yellow, -45 green, - 48 gray

SNAP™ WORKSTATION MODULES

SNAP TracJack Workstation Modules

OR-TISNA





CPARTINO AL SU OR-TJSN6A-xx ORFISNS & Clarity 6

DESCRIPTION Clarity 109 OR TUSINSE-XX Clarity 5E

NOTE: xx = 2 digit color code NOTE: SNAP TJs avaitable colors -09 tog white ,-36 blue, -42 red,- 43 orange, -44 yellow, -45 green, - 68 gray

SNAP Inline Coupler

Ortronics* SNAP inline coupler will allow multiple lengths of SNAP cable assemblies to be connected together in a horizontal channel or permanent link. This product is targeted for use in the open office, flexible workplaces or environments where there is a predisposition that work station layouts will be frequently modified. Factory terminated cabling offers a time saving approach to initial installation and future MAC work.

Supported by PJ panel and TJ plate mounting options

OR-TUSNIC-53



GR-PJSNIC-53



PARTING 141. OR TUSNIC 59.3

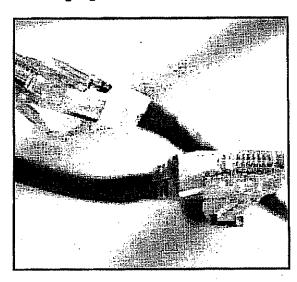
DESCRIPTION SNAP inline coupler Traclack orange SNAP inline couplar Panel Jack orange

U

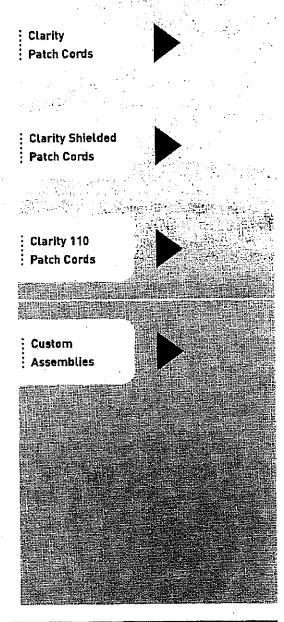
HIGH PERFORMANCE STRUCTURED CABLING PRODUCTS & SOLUTIONS

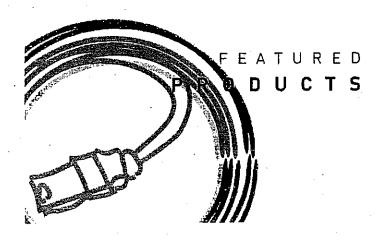
COPPER CONNECTIVITY

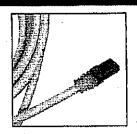
Copper Cords



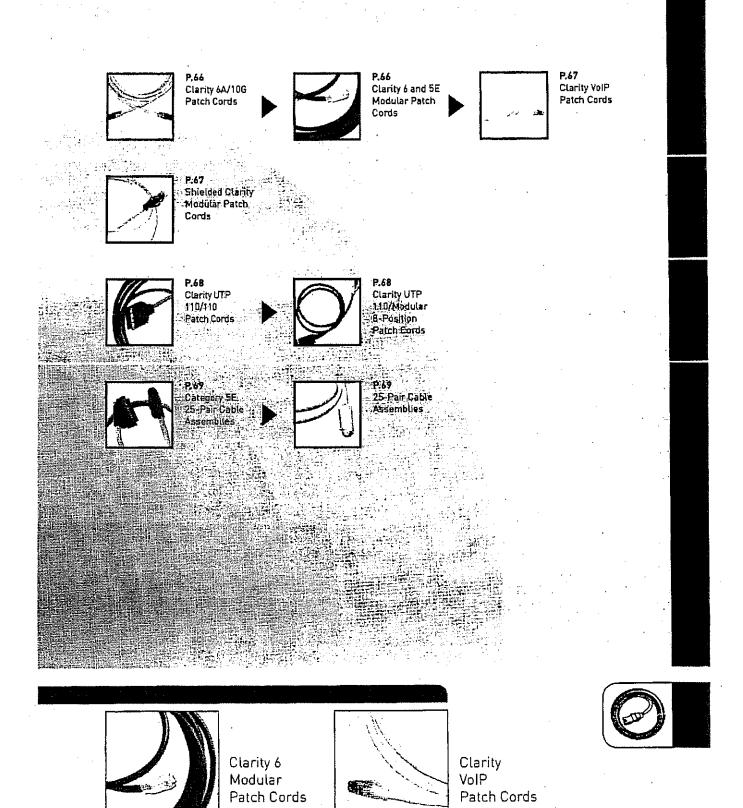
Clarity 6A/10G. Clarity 6 and Clarity SE patch cords lead the impressive family of Ortronics® cable assemblies. Patch cords are now recognized as the most critical element of any high performance cabling system. Legrand | Ortronics developed and is continuously improving Parallen® modular plug technology to ensure that Clarity® cords offer unsurpassed installed performance. The Clarity patch cord offering is complemented by an extensive line of voice/data grade cords and 25-pair cable assemblies—all built with the same attention to quality and performance.







Clarity 6A/10G Patch Cords



P.66

P.67

□ legrand' | Ortronics

CLARITY® PATCH CORDS

Clarity® patch cords utilize center tuned technology to elevate channel performance. Clarity 6A, 6 and 5E cords are ETL verified to Category 6 and 5e component standards. More importantly, center tuning these cords to Clarity jacks and panels provides significant elevation of channel performance that can be field measured.

- Center tuned to Clarity jacks and panels for a more transparent mated union
- Improved Paralign™ 2 plug termination better controls plug performance
- Assembled with premium cordage, and 100% factory tested for performance, reliability, and long life
- · Narrow Paralign plug profile supports use in high density panels and hubs
- Clarity 6 and Clarity 5E patch cords are ETL verified to TIA-568C.2 component specifications to ensure component compliance to project specifications
- Icon compatible—provides additional TIA-606-A designation capabilities

DR-MC41009-09



Clarity 6A/10G Patch Cords

Clarity 6A/10G patch cords combine Category 6A performance with the flexibility of stranded conductor cordage for increased flexibility and ease of cable management. MC610 patch cord assemblies combine with Clarity 6A jacks and panels to deliver reliable 10 Gig channel performance, Meets TIA 568C.2 category &A component specifications. PARTING 1 DR-MC61003-09 DR-MC61005-09 OR-MC61007-07 Modular cord, white, 7 ft. OR-MC61009-09 OR-MC61015-09-OR-MC61020-09 CR-MC61025-09

DESCRIPTION

Modular cord, white, 3 ft. Modular cord, white, 5 ft.

Modular cord, white, 9 ft.

Modular cord, white, 16 ft. Modular cord, white, 20 ft.

Modular cord, white, 25 ft.

NOTE: To order other standard colors change suffix on MC cords: -02-red, -03-orange, -04-yettow, -05-praen, -86-blue, -08-pray, -09-white

08.40407.04



Clarity Modular Patch Cords

Clarity & and Clarity 5E modular patch cords are ETL verified to Category 6 and Se component standards, while providing elevated field-measurable channel performance.

CLARITY & CLARITY SE CATEGORY & UTP CATEGORYS UTP PARTNOSE PARTIND OR-MC603-06 CR-MC605-06 CR-MC607-D6 QR-MC609-06 OR-MUSE 15-06 OR-MC615-D6 OR-MC620-06 OR-MC5E20-06 OR-M0825-06 OR:MC5E25:06

DESCRIPTION

Four-pair 24 AWG stranded UTP, blue, PVC, length 3' Four-pair 24 AWS stranded UTP, blue, PVC, length 5 Four-pair 24 AWS stranded . UTP, blue, PVC, langth 7" Four-pair 24 AWG stranded UTP, blue, PVC, length 9' Four-pair 24 AWG stranded UTP, blue, PVC, length 15' Four-pair 24 AWG stranded UTP, blue, PVC, length 20" Four-pair 24 AWG stranded UTP, blue, PVC, length 25'

NOTE: To order other standard colors change suffix on MC cords: -02 = red, -04 = yellow, -05 = green, -06 = blue, -08 = gray, -09 = white, -00=black.

OR-SC4P0758-04



Clarity 6 and Clarity 5E Solid Conductor Modular Cable Assemblies

Combining Paralign 2 plug termination with a specially designed Category 6 or Category 5e horizontal cable, these Clarity 5E and Clarity & performance grade essemblies serve applications where a punched down termination is required for one end while the other provides an eight-position plug. Typical applications include modular consolidation points or panel-to-panel cross connects.

PARTINO FORMULA DR-SCIXI 6R.Category 6 PVC

&P=Category & plenum 5ER≢Category 5a PVC 5EP, Category 5e

(XXI length in feet

> Example 10=10ft

D= doubleended modular 8 pos. plug

S= singleended modular 8 pos. plug

XI (XX) A=1648A -06 = blue

benlw B-T548B wired

NOTE: To order other standard colors for PVC cables change suffix on MC cords: -02=red,-03=orange, -04=yellow, -05=green, -06=blue, -08=gray, -09=white. Contact sales for other Plenum cable miora

CLARITY® PATCH CORDS

0R-VC107-01

Clarity VolP Patch Cords

Ortronics* VotP patch cords provide an extra low-profile Clarity plug at one end to address cable bend requirements when plugging into the bottom of an IP phone set. The other cord end offers the full protective attributes of the Paralign 2 plug.

| CLARITY & LITP TO THE TOTAL TOTA | DESCRIPTION |
|--|--|
| OR-YC603-07 | Four-pair 24 AWG Category 6 stranded UTP, white, PVC, Length 3 |
| OR-VC405-09 | Four-pair 24 AWG Category 6 stranded UTP, white, PVC, length 5' |
| OR-VC607-09 | Four-pair 24 AWG Category 6 stranded UTP, white, PVC, Length 7 |
| OR-YE609-09 | Four-pair 24 AWG Category 6 stranded UTP, white, PVC, langth 9 |
| OR-VC615-07- | Four-pair 24 AWG Catagory 6 stranded UTP, white, PVC, length 15' |

NOTE: To order other standard colors change sulfix on MC cords; -02-rad, -03-orange, -04-yellow, -05-green, -06-blue, -08-grey, -09-white

CLARITY PATCH CORDS

OR-MCS403-08



Shielded Clarity **Modular Patch Cords**

A shielded version of the Paralign 2 plug termination makes these Clarity shielded patch cords the high performance choice for an STP or FTP 100 ohm cabling system.

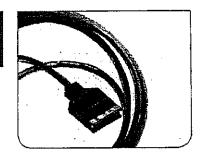
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| OR-MCS6A25-08 | OR-MCS625-08 | OR MC55E25-08 | |
| 能够是没有 | | PARTIE NO. | gray, |
| 国際語言である。 | Marka Salata | | lengt |
| NOTE: Clarity & it | ates available in -02 | red and -04 yellow. | |

RIPTION pair 24 stranded gray, PVC, ւհ 3 -pair 24 stranded gray, PVC, th 5" -pair 24 stranded gray, PVC, th 7 -pair 24 stranded gray, PVC, th 9 -pair 24 AWG ded FIP. PVC, th 15' -pair 24 AWG nded FTP, PVC, th 25

Dlegrand Ortronics

CLARITY® 110 PATCH CORDS

Clarity 110 patch cords are ETL verified to TIA-568-B Category 6 and 5e component standards. More importantly, Clarity 110 plugs utilize an internal signal feedback technique to control cross talk without compromising impedance. Clarity 110 to modular 8-position patch cords utilize both signal feedback and center tuning. This allows more transparent connector interfaces for significant elevation of channel performance that can be field measured.



- Verified to TIA component specifications to ensure component performance
- Internal signal feedback of the 110 plug design controls noise contributors
- Center tuned Paralign™ 2 modular plug design controls the plug for a transparent mated union
- Assembled with premium cordage for performance, reliability, and long life
- Factory tested for performance to ensure consistent reliability

Clarity UTP 110/110 Patch Cords

OR-110C607-06



| CCARITY & UTP | CLARITY SETUTP |
|-----------------|------------------------------|
| PARTING: OF | PART NO 🗁 🗉 |
| OR-110C403-06:- | OR-11005E03-0 |
| | ON HUCOEDS-BI |
| OR-1100405-06 | OR-11005E05-0 |
| | TO DO NOT THE REAL PROPERTY. |
| QR+1100607;06 | OR-(1005E0740 |
| OR-110C609-04 | OR-11005E09-0 |
| | |
| OR-110C415:06 | OR HIDCOE 5 D |
| | |

DESCRIPTION

110/110 four-pair patch cord, blue, length 3'
110/110 four-pair patch cord, blue, length 5'
110/110 four-pair patch cord, blue, length 7'
110/110 four-pair patch cord, blue, length 9'

110/110 four-pair patch cord,

blue, length 15'
NOTE: To order other standard colors, change suffic: -06 = blue, -05 = preen, -07 = white.

Clarity UTP 110/Modular 8-Position Patch Cords

OR-MC188603-04



| OLARITY & UTP | GUARTRY DE UTRO-ST |
|-----------------------|--|
| PART NO. | PART NO. |
| HERE WAS IN | |
| QR-MC18B603-D6 | OR-MC1BB5E03:04 |
| OR:MC18B695-06: | OR-MC1885E05-D6 |
| | The second secon |
| CR-MC/888607-06 | OR-MCTBB5E07-06 |
| | 300 PM AND THE SHOOTANE |
| OR-MC188609486 | OR-MC1885E09-06 |
| | MACHEN THE STATE OF |
| DR-M018B615-06 | OR MO18B5E15 D& |
| MOTE To be because as | |

DESCRIPTION

110 four-pair patch cord, T568B, blue, length 3' 110 four-pair patch cord, T568B, blue, length 5' 110 four-pair patch cord, T568B, blue, length 7' 110 four-pair patch cord, T568B, blue, length 9' 110 four-pair patch cord, T568B, blue, length 15'

NOTE: To order other standard colors, change suffice -06 = blue, -05 = green,

CUSTOM ASSEMBLIES

OR-845EPLPL005-1GY



Category 5e 25-Pair Cable
Assemblies (stock lengths)
Ortronics* Category 5e 25-pair cable
assemblies use premium Category 5e
cable and high performance 50-pin
connectors to support multi-circuit
connections between hubs and panels

or between panels.

Terminated Male/Male, 110° Left Exit





DESCRIPTION
Category 5e, 25-pair cable assembly, M/M, gray PVC, tength 5'
Category 5e, 25-pair cable assembly, M/M, gray PVC, tength 7'
Category 5e, 25-pair cable assembly, M/M, gray PVC, tength 10'
Category 5e, 25-pair cable assembly, M/M, gray PVC, tength 25'

DR-845PSPS005-18Y



Custom Length Category 5e 25-Pair Cable Assemblies

Part No. Formula



| 100 | A STATE OF |
|------------------|--------------|
| OR-XXXX | 40.0 |
| | |
| 100 | 200 |
| ASSEMBLY | and realing |
| | Section 24 |
| TO DE CONTRACTOR | 200 |
| ITYPE ST | Andrew Court |
| | 277 P. 15 |
| OR-845E | 2 |
| | ARCHITECTOR |
| I Calanami Be | 117 |
| | |

XXXX XXX
TYPE OF LENGTH
CABLE ENDS IN FEET

-X or -XXX TYPE Of CABLE

PL, PR, PS, XX 5, 10, 15, 25

4 or 1GY

Example: OR-845EPRPS025-4

Type of Cable Ends: Pi. = Male 110° left exit PS = Male 160° PR = Male 110° right exit

XX = Blant, not terminated

Type of Cable:

1GY = 24 AWG Gray PVC

4 = 24 AWG Plenum

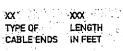
OR-991025PC005-16Y



25-Pair Cable Assemblies

Ortronics voice/data/LAN 25-pair cable assemblies are constructed from 24 AWG solid conductor UTP cables terminated with industry standard 50-pin telco connectors.

Part No. Formula



-X or -XXX TYPE OF CABLE

P, C, X

6, 10, 15, 25 16Y

6, 10, 15, 25

16Y or 4

Examples: OR-804025PC015-1GY, OR-801025PC010-1GY

Type of Cable: Ends: P = Male 90° C = Female 90° X = Blunt, not terminated

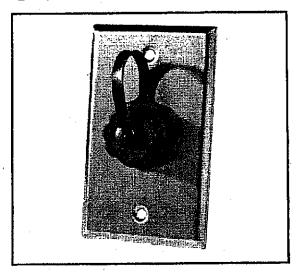
Type of Cable: 16Y = 24 AWG Gray PVC 4 = 24 AWG Plenum

NOTE: Consult sales for other custom requirements and for lead times and minimum orders.

HIGH PERFORMANCE STRUCTURED CABLING PRODUCTS & SOLUTIONS

► COPPER CONNECTIVITY

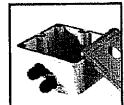
Industrial Solutions



Bringing data cabling systems into your industrial space comes with a new set of challenges that must be addressed in order to ensure the reliability of your cabling and connectivity. Legrand | Ortronics provides an offering of connectivity products designed to meet the environmental challenges of industrial / lab / harsh. environments as well as meeting standard data transmission requirements. The offering starts with IP67-rated Category 5e and Category 6 connectors, housings and patch cords. What is 1P677 IP stands for Ingress Protection, the ability to withstand the influence of external environmental influences. The IP number is . composed of 2 digits. The first digit refers to protection against solid objects idust is an example). The larger this number is, the smaller the particle of matter has to be to penetrate the protection. A number 6 indicates "total protection against dust." The second digit describes the protection level against liquids. A number 7 indicates "protected against the effects of immersion between 15 cm and 1 meter." An IP67 rating would surpass IP66 and is an optimum rating for a factory environment where exposure to dirt, dust, other particulate, splash & wash downs is likely.

Industrial Jacks





Industrial Plates and Surface Boxes



Patch Cords



FEATURED PRODUCTS

INDUSTRIAL JACKS, PLATES AND BOXES

Ortronics* range of Industrial Grade connectivity meets IP67 while supplying the quality cabling performance you have long associated with Ortronics, industrial grade jacks, patch panels, and patch cords are available in Catagory 5e & 6 performance grades. A supporting offaring of industrial grade faceptales and surface boxes include gaskets, seals and sealing plugs to support IP67 level protection through the equipment outlet. Industrial faceptates are stainless steel with gaskets. Industrial boxes utilize DL 94V0 chemically resistant plastic bases with stainless steel cover plates.

Industrial IP67 IDC Jacks

OR (1934, DR-1935E



PART NO.:-OR-IFJ6 DR-IPJ5E

DESCRIPTION

Category 6 industrial Jack, IP67, black with protective cover cap

Category Se industrial jack, IP67, black with protective cover.cap

Stainless Steel IP67 Industrial Faceplates

OR-403IP5511









DESCRIPTION

Industrial stainless steel plats, 1-port single gang plate, 2.75 in x 4.5 in

industrial stainless steel plate, 2-port single geng plate, 2.75 in x 4.5 in

Industrial IP67 Surface Boxes with Stainless Steel Covers

UR-404(P22







DESCRIPTION

2-port Industrial grade box, cover and watertight. cable gaskets & plugs, 5 in x 5 in

4-port industrial grade box, cover and watertight cable gaskets & plugs, 5 in x 5 in

INDUSTRIAL PATCH CORDS

industrial Grade IP67 Patch Cords

GR-IPC418-09





DESCRIPTION

Category & Industrial patch cord, 3 ft, black Category & industrial patch cord, 5 ft, black Category 6 industrial patch cord, 7 ft, black Category 6 industrial patch cord, 10 ft, black Category 6 industrial patch cord, 15 ft, black Category 6 industrial patch cord, 20 ft, black Category & Industrial patch cord, 25 ft, black

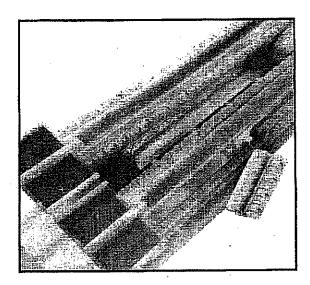
OR IPC6E03:00 OR-IPC5E07-00 OR-IPC5E010-003 70R-IPC5E015-00

DESCRIPTION

Category 5e industrial patch cord, 3 ft, black OR-PC5E05-00 Category 5e industrial patch cord, 5 ft, black Category 5a industrial patch cord, 7 ft, black Category 5e industrial patch cord, 10 ft, black Category 5e industrial patch cord, 15 ft, black OR-IRC5E020-00 Category 5e industrial patch cord, 20 ft, black OR INCSE026-00 Category 5e industrial patch cord, 25 ft, black HIGH PERFORMANCE STRUCTURED CABLING PRODUCTS & SOLUTIONS

► COPPER CONNECTIVITY

110 Cross Connect System



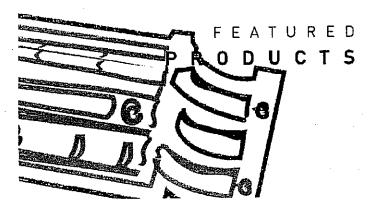
Ortronics® Clarity® 6 and Clarity 5E blocks further expand the high performance data opportunities for 110 blocks. Offering field terminated block kits to rack or backboard mounted cross connect assemblies, Legrand | Ortronics has a 110 product to meet your application needs for performance, high density and quick termination. Legrand | Ortronics also offers a range of pre-wired 66 blocks to serve as a network demarcation point or for voice or low speed data applications.

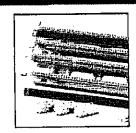
Clarity 6 and Clarity 5E 110 Block Kits

110 Accessories

110 Panels

Pra-Wired 66 Blocks





Clarity 6 110 Blocks p.**72**



P.72 Clarity 6 Category 6 110 Block Kits



P.72 Clarity 5E Category 5e 110 Block Kits



P.72 110 Wiring Blocks for Voice/Data



P.73 Designation Labeling Kits



P.74 110 Jumper Troughs



P.73 19" Wide Rack Mount 110 Panel Kits



P.74 110 Wall Mount Cross Connect Block Kits



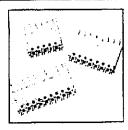
P.75 110 Wall Mount Backboards and Cable Management



P.76 110 Frames and Cable Management

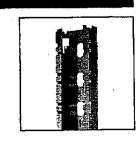


P.77 Pre-Wired 66 Blocks



110 C Connecting Block Clips for Voice

p.74



110 Wall Mount Backboard Channels

P.75



□ legrand | Ortronics

CLARITY® 6 AND CLARITY 5E 110 BLOCK KITS

NOTE: Product plimensions are listed by width, height and depth unless specified otherwise

The Clarity family of 110 blocks combines Category 6 and 5e performance with the ease and reliability of 110 termination and installer friendly features all within the traditional 110 block footprint. Clarity blocks are available in 50, 100, and 300-pair sizes, and provide designation areas and rear cable entry. Clarity 6 blocks use a signal feedback technique internal to the C611BC4 connector to control crosstalk without compromising impedance. Clarity 6 and Clarity 5E block kits include base wiring block, 110C connecting blocks and label holders for designation.

Clarity & Category & 110 Block Kits





OR-110DBC6100 without lags



PART NO.

OR-110ABC6100* OR-110ABC6300 with leas OR-1100BC6050 without legs OR-110DBC6100 swithout legs

DESCRIPTION 48-pair (12 4-pair clips) 50-pair footprint, 1.8" x 10.72" x 3.25"

96-pair [24 4-pair clips] 100-pair footprint, with legs 2.59" x 10.72" x 3.25" 288-pair [72 4-pair clips] 300-pair footprint, 10.79" x 10.72" x 3.25" 48-pair (12 4-pair clips) 50-pair lootprint, 1.8" x 8.5" x 1.59" 96-pair (24 4-pair clips) 100-pair lootprint, 3.59" x 8.5" x 1.59" 288-pair (72 4-pair clips) 300-pair footprint. 10.79" x 8.5" x 1.59"

Clarity 5E Category 5e 110 Block Kits





OR-1100BCSE100 without leas



PART NO ... BESCRIPTION LOR-110ABC5E050 With legs DR-10ABC5E100 Wilhiegs OR-110ABC5E300 with leds ... OR-1100BC5E050 without legs. OR MODECSELOO Withoutleds DR 1100805E300 Willoutlegs 10.79" x 8.5" x 1.59"

50-pair (10 4-pair and 2 5-pair clips), 11.8° x 10.72° x 3.25° 100-pair (20 4-pair and 4 5-pair clips), 3,59" x 10.72" x 3,25" 300-pair (60 4-pair and 12 5-pair clips). 10.79" x 10.72" x 3.25" 50-pair (10 4-pair and 2 5-pair clips), 1.8" x 8.5" x 1.59" 100-pair (20 4-pair and 4 5-pair clips), 3.59" x 8.5" x 1.59" 300-pair (60 4-pair and 12 5-pair clips),

110 Wiring Blocks for Voice/Data

OR-30200145 with legs



PARTINO ... OR-S0200V45 With legs 25 without legs OR-30200022

DESCRIPTION 100-pair, 3.59" x 10.72" x 3.25"

300-pair, 10.79" x 10.72" x 3.25"

100-pair, 3.59" x 8.5" x 1.59"

300-pair, 10.79" x 8.5" x 1.59"

110 C Connecting Block Clips for Voice

OR-30200101



PART NO ESTA OR-20200108 OR:30200109 OR-20200110°

DESCRIPTION Three-pair (110C3) Four-pair [110C4] Fiva-pair (110C5)

NOTE: Package of lan

For additional product availability visit www.legrand.us/ortronics or contact sales at 800-934-5432

ORTR001064

110 ACCESSORIES

NOTE: Product dimensions are listed by width, height and depth unless specified otherwise.

Designation Labeling Kits

OR-70400646 for blocks with legs

DR-79400480 for blocks without legs



DESCRIPTION

Package of two for Clarity⁶ 110 blocks, and tabel caps, clear strips and paper inserts Package of two for Clarity 110 blocks, short end caps, clear strips and paper inserts

Package of two clear strips and white paper

OR-70400272



*Not compatible with Clarity & Blocks



110 Jumper Troughs

OR 34200135



OR-30200140



DESCRIPTION

Without legs, 8.5" x 2.69" x 2.69" With legs, 10.75" x 2.69" x 4:69"

110 PANELS

Ortronics® 110 Block Panels provide two 100-pair block kits and two jumper troughs (without lags) on a 19° wide panel that is mountable to the Ortronics Mighty Mo® rack system or to other EIA racks.

19" Rack Mount 110 Panel Kits

OR-101003292



DR-302003251



DESCRIPTION Clarity 6 192-pair Category 6 panel kit with troughs, 48 Category & 110C4, 19" x 7" Category 5e 200-pair panel kit with troughs. 40-110C4 and 8-110C5 clips, 19" x 7" Category 5e 200-pair panel kit with troughs, 40-11005 clips, 19" x 7"

19" Rack Mount 110 Panel (Unloaded)

OR-30400147



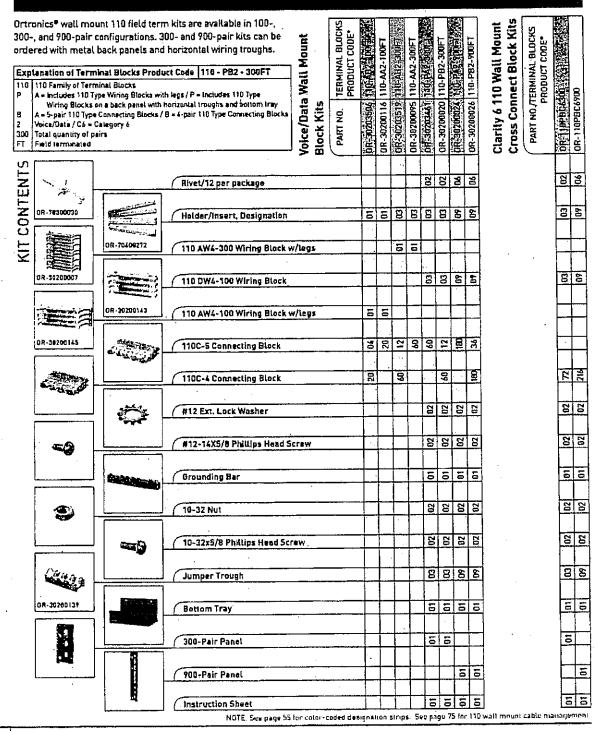
08:30400150



DESCRIPTION Panel for two 100-pair blocks without legs,

19" x 3.5" Panel for two 100-pair blocks and two troughs without legs, 19" x 7"

110 PANELS



PRE-WIRED 66 BLOCKS

NOTE: People is dimensioned are used by seldib, height and depth unless specified otherwise

DR-80800324E



110 Wall Mount Backboard Channels

Ortronics* 110 backboard channels are wall mount kits, complete with hardware to mount 100-pair 110 blocks without legs and jumper troughs without legs. Channels provide protected paths for terminated cables. Kits include bottom cable trough and grounding bar.

PART NO. OR-806003246 DESCRIPTION

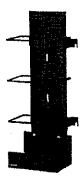
300-pair backboard, 8.5" x 24.75" x 8.13"

900-pair backboard, 8.5" x 62.63" x 8.13"

OR-30290132



OR-806003194



110 Wall Mount Backboard Channels

Ortronics single or dual channel vertical channels wall mount between 110 wall mount backboards to provide a managed path for patch cords or cross connect wire. The dual channel provides an added ability to separate cable types in vertical management.

Single Channel

DESCRIPTION

300-pair backboard size, 8.5" x 23.88" x 8.13" 900-pair backboard size, 8.5" x 61.75" x 8.13"

Dual Channel

PARTINO. DR-886003197. OR-806009199 DESCRIPTION

300-pair backboard size, 8.5" x 23.88" x 8.13"

900-pair backboard size, 8.5" x 61.75" x 8.13"

OR-40400020



110 Wall Mount Horizontal Cable Management Bracket

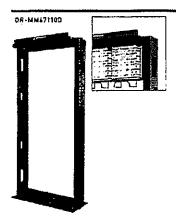
Ortronics horizontal cable management brackets wall mount between 110 wiring blocks to organize, support and provide for future changes to horizontal runs of cable.

DESCRIPTION

10.75" x 6.5" x 4.5"

PRE-WIRED 66 BLOCKS

NOTE: Product dimensions are listed by width, height and depth unless specified otherwise



Mighty Mo® 6 110D Distribution Frame

Ortronics* Mighty Mo 6 110D
Distribution Frame provides total
vertical cable management to route
cable more affectively in a 110 cross
connect. Use with OR-30600166 to
mount 300-pair 110 blocks with legs.
Front and rear mounting supports
up to 9000 pairs. Includes cable
management straps in 6.5° deep
vertical channels. Color is black.



DESCRIPTION

39" x 86" x 16.50"

U

OR-30400146



900-Pair Rack Mount Panel with Cable Troughs

Accepts three 300-pair 110 blocks with legs.

DESCRIPTION

34.25" x 14.54"

U

OR-MH4VML704



Mighty Mo 6 Vertical Cable Management Cage with Latches

Patented design promotes efficient routing of patch cords between racks. Hinged latches allow easy access during moves, adds, and changes. 6" wide cage creates a 2.5" gap between racks for front-to-back routing of equipment cables and patch cords.

DESCRIPTION

With latches, 4" x 6" x 7", rack units

With Intches, 6" x 6" x 7", rack units

With A Multi initiation to 11, lack differ

NOTE: Includes all hardware necessary to mount cage on face of two Mighty Mo 6 racks, single rack or end of row. Patent No. 6,365,834

PRE-WIRED 66 BLOCKS

NOTE: Product dimensions are listed by width, height and depth unless specified otherwise.

OR-805003202



OR-8050M1578



Pre-Wired 66 Blocks

Ortronics* pre-wired 66 blocks can be used to provide network interface connections between voice and data equipment and the public telco network as well as modular wiring connections for key telephone systems.





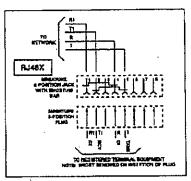
DESCRIPTION

T1 network interface block, 66M150 66 block eight-port, RJ48X, on 89D, 16-pair, 10" x 2.84" x 2.71"

Modular 66 connecting block with two 25-pair female telcos on 89D, 50-pair, 10" x 2.84" x 2.71"

Modular 66M150 connecting block with one 25-pair female talco on laft side on 89D, 25-pair, 10" x 2.84" x 2.71"

Modular 65 connecting block on 89D with one 25-pair male telco on left side, 25-pair, 10" x 2.84" x 2.71"



HIGH PERFORMANCE STRUCTURED CABLING PRODUCTS & SOLUTIONS

Physical Support





Complete cable management maximizes your network's performance. It may be a small portion of your overall network investment, but the proper infrastructure layout can yield enormous returns. The right cable management system can protect and extend the life of your network. Ortronics* Mighty Mo® advanced cable management systems provide strength and support, and flexibility for system design and future expansion. No other system makes it easier to install your network with standards compliant bend radius, cable routing and strain relief, ensuring optimal network performance.

Mighty Mo Cable Management **Systems**

Mighty Mo Cabinets

> Standard EIA Racking Systems & **DataCab Cabinets**

Horizontal Cable Management, Shelves & Access.

Mighty Mo

Bonding & Grounding, Runway

Air Control

Largrand | Orthonics Is a





Mighty Mo Cable Management Racks

P.80



Mighty Mo 10 Cable Management Racks & Accessories



P.82 Mighty Mo 6 Cable Management Racks & Accessories



P.87 Mighty Mo 6 Horizontal Management and Equipment Shelves



P.92 Mighty Mo Pre-Configured Cabinets



P.94 Mighty Mo Cabinet Accessories



P.102 Mighty Mo Wall **Mount Cabinets** & Accessories



P.104 Adjustable Dual Equipment Racks and Accessories



P.117 DataCab Server Cabinets & Accessories



P.118 DataCab Wall Mount Cabinets & Accessories



P.119 Cable Management Panels



P.124 Equipment Shelves



P.128 Rack and Cabinet Accessories



P.134 Air Curtain System



P.137 Air Plugs



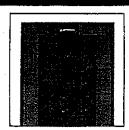
P.138 Air Disrupters



P.141 Bonding & Grounding



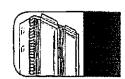
P.147 Tubular Runway & Accessories



Mighty Mo Cabinets P.91



Mighty Mo Air Control £133





The patented Mighty Mo advanced racking system is specifically designed for higher density cabling system applications such as data centers, SANs, and main cross connect areas. It is easy to assemble and offers many configuration options, extra vertical cable capacity, and other functional and aesthetic elements. The Mighty Mo system features an innovative vertical management "cage" with individual 1-rack unit fingers and a double-hinged door. Horizontal cable managers, available with covers, are designed to match the layout of Ortronics® Clarity® patch panels. Mighty Mo racks and accessories work together to mount, manage and organize virtually any structured cabling equipment and provide a unified, streamlined look.

Click here to see videos on Mighty Mo installations.

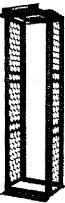
Choose from the new Mighty Mo 10 rack, specifically designed to improve airRow in data centers, or the Mighty Mo 6 for standard LAN applications.

- Patented channel construction has built-in strain relief, bend radius control, and cable routing with floor and ceiling access to distribution cables
- Top trough with built-in waterfall provides bend radius control and efficient patch cable routing
- Vented double hinged front and rear doors are available for additional security on Mighty Mo 6 and Mighty Mo 10 racks
- Can be assembled as a 19" or 23" rack. No additional hardware required; no need for two sizes of racks
- Unless otherwise noted, all Mighty Mo 6 and Mighty Mo 10 components are compatible with both racks

MIGHTY MO CABLE MANAGEMENT SYSTEM

MGTE: Product dimunations are traced by width, height and digith unless specifical otherwise

OR-MM10716





Mighty Mo 10 Cable Management Racks

Mighty Mo 10 racks are designed to maximize the airflow of network equipment. Honeycomb side rails and baffles combine to manage intake and exhaust air, creating cold aiste/hot aiste air distribution from side vented equipment. The bottom flange turns inward, allowing it to fit on a 2'x2' floor tile. Black.





DESCRIPTION

16:25" channel depth, 7", high, black, 45 rack units 16:25" channel depth, 8", high, black, 51 rack units

NOTE: Static capacity 1,500 lbs. Assembly required. Patent pending

Mighty Mo Speednut

Faster Assembly!
Included with every Mighty Mo cable management rack! The Mighty Mo Speednut increases the speed and ease of assembly white adding extra strength to your racks. Hold the Speednut behind the rack white hand-tightening the bolts in front. Speednut eliminates the need for a second wrench!





Mighty Mo 10 Server Rack

The Mighty Mo 10 Server Rack works with all of the Mighty Mo 6 and 10 racks and cable management. The mounting rails adjust from 12.5° to 30°, independent of the structural members allowing the rails to be adjusted after the rack is installed. Mighty Mo vertical managers can be mounted front or rear. Black.



DESCRIPTION

Four-post aluminum frame, supplied with 50 #12-24 cage nuts and screws; 45 rack units, TH

Server rack battle rail for mounting 14.25° airflow battles to 7° server rack when rails are spaced at 30° Four-post aluminum frame, supplied with 50.#12-24 cage nuts and scraws, 51 rack units, 8°H



NOTE: Static capacity: 1,500 ths. (evenly distributed) Assembly required.

Sport of the processing of the company of the standard participation is specified allow some

OR MMIGVMD712



Mighty Mo 10 Cable Management Cage with Door

Cage design promotes efficient routing of patch cords between racks. Hinged doors allow easy access during moves, adds, and changes. 16" wide cage creates a 12:25" gap between racks. 12" wide cage creates a 8:25" gap between racks for front-to-back routing of equipment cables and patch cords. Both are supplied with four spools and 12 bend-limiting clips. Black.

TAREMONE

10REMM10YM0712

50REMM10YM0716

10REMM10YM0817

DESCRIPTION

With door, 12.13" x 13" x 7"

With door, 16.38" x 13" x 7"

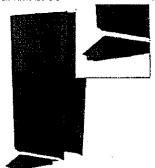
With door, 12,13" x 13" x 8

With door, 16.38" x 13" x 8"

NOTE: All cable managers include hardware nacessary to mount the cage on the face of two Mighty Mo 6 or 10 racks.

Patent Numbers 5,946,605, 6,968,647 and 7,026,553

OR-MM10AB71412



Mighty Mo 10 Airflow Baffles

Mighty Mo 10 siritow baffles mount between racks and direct intake and exhaust air on side flow network equipment from cold aiste to hot siste. Black.



DESCRIPTION

For use with 7' x 16" Mighty Mo 10 rack. and 12" wide Mighty Mo 10 cage For use with 7' x 16" Mighty Me 10 rack and 16" wide Mighty Mo 10 cage For use with 7. Mighty Mo 10 Server Rack and 12" wide Mighty Mo"10 cage when ralls are spaced at 307 apart. For use with 7 Mighty Mo 10 Server Rack and 16" wide Mighty Mo 10 cage when ralls are spaced at 30" spart. For use with 8" x 16" Mighty Mo 10 rack and 12" wide Mighty Mo 10 cage For use with 8' x 16" Mighty Mo 10 rack and 16" wide Mighty Mo 10 cage For use with 8' Mighty Mo 10 Server Rack and 12" wide Mighty Mo 10 cage when rails are spaced at 30" apart. For use with 8" Mighty Mo 10 Server Rack and 16" wide Mighty Mo 10 cage when rails are spaced at 30" spart.

NOTE: includes att hardware necessary to mount between two Mighty Mo 10 racks. Not intended for use with Mighty Mo 5 racks. Patent pending

OR-MM10VDA7248





Mighty Mo 10 Vented Door Assemblies

Door design allows mounting to the front or rear of any Mighty Mo 6 or Mighty Mo 10 rack. The double-hinged door pivots to the right or left and is easily removed. Black.



DESCRIPTION

7"x 24" with 8.38" of clearance behind door for use with VMD-style vertical managers

7' x 24" with 4.38" of clearance behind door for use without vertical managers

8" x"24" with 8,38" of clearance behind door for use with VMD-style vertical managers

8' x 24" with 4.38" of clearance behind door for use without vertical managers

NOTE: Door designed to work with Mighty Mo racks assembled in the 19" configuration.

1917F. Product datengens are travel by easin formul and depth indess specified athoroxic

OR-MM1070206VCT



Vertical Cable Trays for Mighty Mo 10 Server Rack

Vertical cable trays consist of a pre-cut section of 2" x 6". Cablofile cable tray and mounting hardware designed to mount on the rack and manage distribution cables routing from the patch panel and equipment out of the rack. It mounts to the strut on the rack and can be adjusted front to back.



DESCRIPTION ·

Vertical cable tray 2" wide x 6" deep for the Mighty Mo 10 7 foot server rack

Vertical cable tray 2" wide x 6" deep for the Mighty Mo 10 8 foot server rack

MIGHTY MO® CABLE MANAGEMENT SYSTEM

OR-MHA710

Mighty Mo 6 Cable Management Racks

Mighty Mo* 6 racks are available in 6.5°, 10.5° and 16.25° channel depths. The 16.25° size is designed specifically for large and heavy network equipment. The bottom flange on the 16.25° standard rack turns inward, allowing it to fit on a 2° x 2' floor tile.



DEC POIDTINN

6.5° channel depth, 7' high, black, 45 rack units

10.5 channel depth, 7', high, black,

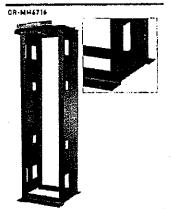
14.25" channel depth, 7', high, black, 45 rack units

10.5" channel depth, 8", high, black, 51 rack units

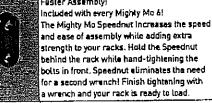
16.25" channel depth, 8', high, black, 51 rack units



NOTE: Static capacity 1,500 lbs. Assembly required. Patent No. 0360,189



Mighty Mo Speednut Fester Assembly!



19116. Fer their generating the cross by earlier, beight and depth unless specified attempts.

GR-HM&VHD710





Mighty Mo 6 Cable Management Cage with Door

Cage dasign promotes efficient routing of patch cords between racks. Hinged doors allow easy access during moves, adds, and changes. 10" wide cage creates a 6.5" gap between racks, 6" wide cage creates a 2.5" gap between racks for front-to-back routing of equipment cables and patch cords. Both are supplied with four spools and 12 bend-limiting clips. Black.



DESCRIPTION

With door, 6" x 8" x 7"

With door, 10" x 13" x 7"

With door, 4" x 8" x 8"

With door, 10" x 13" x 8"

NOTE: All cable managers include hardware necessary to mount the cage on the face of two Mighty Mo & racks. The &* wide model contains gussel brackets and is recommended for a single rack or end of a row.

Patent Numbers 6,946,605, 6,968,647 and 7,024,553

DR-MH4YMS704





Mighty Mo 6 Vertical Cable Management Cage with Cover

Cage design promotes efficient routing of patch cords between racks. Dual snap on hinged covers allow easy access during moves, adds, and changes. 6" wide cage creates a 2.5" gap between racks for front-to-back routing of equipment cables and patch cords. 6" wide cage is supplied with four spoots and 12 bend-limiting clips. Black.



DESCRIPTION

With cover, 4" x 7" x 7"

With cover, 6" x 7" x 7"

With cover, 4" x 7" x 8"

With cover, 6" x 7" x 6

NOTE: includes all hardware necessary to mount cage on face of two Mighty Mo 6 racks, single rack or end of row.

Patent Numbers 6,946,605 and 7,026, 553

OR-MM4YML704





Mighty Mo 6 Vertical Cable Management Cage with Latches

Patanted design promotes efficient routing of patch cords between racks. Hinged latches allow easy access during moves, adds, and changes, 6" wide cage creates a 2.5" gap between racks for front-to-back routing of equipment cables and patch cords. Black.



DESCRIPTION

With latches, 4" x 6" x 7"

With latches, 6" x 6" x 7".

NOTE: Includes all hardware necessary to mount cage on face of two Mighty Mo & racks, single rack or end of raw.

Patent No. 6,365,834

To \$74. For the Commencency are as a displaced the optic and depth inches spin shed selectors.

DR-MMIOWFE



Mighty Mo 10 Waterfall Extension



DESCRIPTION

Increases the height of the front flange of the Mighty Mo waterfall by 2.25" when additional cable capacity is required. Black

NOTE: Fits at! Mighty Mo 10, 6 and 3 waterfalls

0R-4048041A



Cable Management Rings

These black plastic rings flex at the end for easy insertion or removal of cross connect cables. They snap in place on the front and back of the Mighty Mo racks. Black.



DESCRIPTION

Snap-type, 1.75° X 6", package of 14 Snap-type, 1.75° X 6", package of 2 Snap-type, 1.75° x 3", package of 14 Snap-type, 1.75° x 3", package of 2

NOTE: No hardware needed.

OR-60400017



Cable Management Rings

These rings allow efficient routing of patch or cross connect cables between distribution racks. They can be mounted where needed on the front and back of the Mighty Mo racks. Black.



DESCRIPTION

2° x 6°, package of 14, Black 2° x 6°, package of 2, Black

NOTE: Includes mounting hardware.

OR-MHACHSE



Mighty Mo Cable Management Spools

Cable management spoots effectively manage excess copper or fiber cable stack. They mount at rack unit intervals, providing flexibility and proper bend radius for cables on the front the 6" wide cage with door or on the front and rear of the 10" wide cage with door. Set of four. Black.



DESCRIPTION

11" long for 10" vertical management cage with door

8" long for 10" vertical management

6" long for 6" vertical management cage with door

OR-MMEBLC



Mighty Mo Bend Limiting Clip

Bend limiting clips snap on to any finger on the vertical management cage to provide bend limitation for fiber jumpers entering and exiting the cage. Set of 12. Black.



DESCRIPTION

3:25" long for vertical managementcages with door or cover

NUTC: Product dimensions are tisted by width, height and depth unless specified otherwise.

OR-MM6CBL10



Mighty Mo Channel Bend Limiters

Mighty Mo channel bend timiters clip onto the top edge of Mighty Mo channels providing the proper bend radius for cables entering the channel, Set of 2, Black.



DESCRIPTION

For use with Mighty Mo racks with 6.5" channels

For use with Mighty Mo racks with 10.5" channels

For use with Mighty Mo racks with 16.25° channels

OR-MMPDUMBT



Mighty Mo PDU Mounting Bracket Kit

Enables the mounting of tooliess (button mount) PDUs to the side of a Mighty Mo rack.



DESCRIPTION

Mighty Mo PDU Mounting Bracket Kit

08-48400487



Mighty Mo Vertical Management Bracket Kit

Vertical management bracket kit includes 4 brackets and all the hardware needed to mount 2 Mighty Mo 6 vertical managers to a standard ElA rack, Black.



DESCRIPTION

Kit consists of 4 brackets, 8 panel mounting screws and 4 cage mounting screws

DR-MM&CRBO&

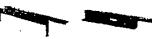
DR-MM&CRE10



1

OR-MMACRE16

OR-MMIDCRBSVR



Mighty Mo Cable Runway Mounting Brackets

Mounts to top of either the Mighty Mo 6 or Mighty Mo 10 racks. Provides a mounting location for 6° - 18° ladder racking.



DESCRIPTION

For rack with 6.5" channel depth For rack with 10.5" channel depth For rack with 16.25" channel depth For MM10 servar rack For raar of MM10 servar rack

OR-MM680C10

OR-MM4BDC16



Mighty Mo Rack Base Dust Cover

Prevents dust and debris from accumulating in rack base. Scored for bending to clear cables from floor up to channel. Black.



DESCRIPTION

For 10.5" channel standard rack
For 10.5" channel standard rack
For 16.25" channel standard rack

85

twists. For itself princers to our elicited by Auton, the grid and depth unicons specified, albertable

OR-MM&CEK10



Mighty Mo Runway Ceiling Extension Kit

Mounts on the top of Mighty Mo & racks. The kit extends one channel 24" and is supplied with a cover to hide the cables. Black.



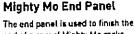
DESCRIPTION. For rack with 6.5" channel depth, one per kit with cover For rack with 10.5" channel depth, one per kit with cover For rack with 16.25° channel depth, one per kit with cover

NOTE: Extension uses rack hardware for mounting

OR-MMAEP710



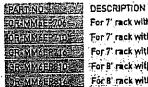
OR MMAEPTOL



end of a row of Mighty Mo racks. It mounts flush and provides a surface for the vertical cable management channel white concealing cables in the rack channal, Black.

Standard

For use with 4" Mighty Mo & vertical cable managers



For 7' rack with 6.5" channel depth For 7 rack with 10.5" channel depth For 7' rack with 16,25" channel depth For B' rack with 10.5" channel depth For B' rack with 16.25" channel depth

NOTE: Includes mounting hardwere

For use with 4" Mighty Me & vertical cable managers"



OR:MM&EPN/08: For 7' rack with 6.5" channel For 7' rack with 10.5" channel For 7' rack with 16,25" channel For 7 Mighty Mo 10 Server rack ralls set at 30° For B' rack with 10.5" channel ORGMINGERNETA For 8' rack with 16.25" channel

NOTE: Includes mounting hardware *To use the narrow end panels with 10" or 12" vertical managers the OR-MMIDEPS and support bracket kit must be installed.



OR MINOERS FEE End panel support bracket kit

OR-MMACTARUX



Mighty Mo 6 Cable Trough

For supporting fiber cables at the bottom of Mighty Mo racks. The kit Includes an extension that bridges the space between racks. Black



DESCRIPTION Cable trough, 4 rack unit Cable trough kit, 4 rack unit

NOTE: includes mounting hardware.

OR-MAIPK



Mighty Mo isolation Pad Kit

Isolates Mighty Mo racks from concrete floors for effective bonding & grounding.



DESCRIPTION

Isolation pad kit for Mighty Mo racks

For additional product availability visit www.legrand.us/ortronics or contact sales at 800-934-5432

NEDE: Person intersections are established breath mouth and depth unless specified officers of

Ortronics^a Mighty Mo cable management panels are optimized to organize patch cords vertically and horizontally on in Mighty Mo racks. They will also mount on any standard 19" rack. The finger design encourages defined and traceable routing of individual patch cords.

Mighty Mo 6 Horizontal Management Panels

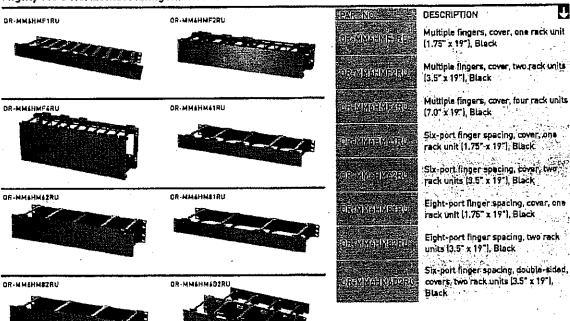


Exhibit H - part 2 of 2

See pages 124-127 for additional shelves for Mighty Mo and standard 19" racks

1967 E. Province conventions are insterfully width, height and depth aniess specified whereese

OR-40400355



Double Equipment Shelves for Mighty Mo Racks

Ortronics double equipment shelf supports miscellaneous equipment, test gear, etc. The double shelves work with Mighty Mo racks with 6.5" deep channels. Shelf width is, 17". Black.

DESCRIPTION

19" x 5.25" x 24", 150 lbs capacity 23" x 5.25" x 24", 150 lbs capacity 19" x 5.25" x 24", 150 lbs capacity

NOTE: Shall is slotted to accept the Ortronics monitor strap kit OR-70700126. Includes #12-24 mounting hardware.

DR-40490517



Double Equipment Shelves for Mighty Mo Racks

Ortronics double equipment shelf supports miscellaneous equipment or test gear. The double shelf works with Mighty Mo racks with 4.5" deep channels when assembled In a 23" configuration. Shelf width is 21.37". Black.

OR-40400455



Double Equipment Shelves for Mighty Mo Racks

Ortronics extra width double equipment shelf is 18.75" wide in front and back; usable width between mounting flanges is 17.5". This shelf works with Mighty Mo racks with 6.5" deep channels, Black.

OR-404045481



Four Point Equipment Shelf for Mighty Mo Racks and Cabinets

Ortronics four point equipment shelf supports miscellaneous equipment or test gear. The one unit shelf works with Mighly Mo racks with all depth channels and Mighly Mo cabinets 24" and deeper. Shelf is 17.25" wide. Black.



DESCRIPTION

19" x 1.72" x 20", 100 lbs capacity

NOTE: Shalf is slotted to accept the Ortronics monitor strap kit OR-70700126. Includes #12-24 mounting hardware.

DR-60400538



Mighty Mo Server Rack Equipment Shelf

The Mighly Mo server rack equipment shell has a fixed front flange with an infinitely adjustable rear flange that allows for secure four point mounting as deep as 30". Shelf width is 17.25", Black.



DESCRIPTION

19" x 1.7" x 30", 200 lbs capacity

NOTE: Shelf is slotted to accept the Ortronics monitor strap kit GR-70700126. Includes #12-24 mounting hardware

DR-70700126



Mighty Mo Monitor Strap Kit

The monitor strap kit consists of hook and loop straps which can secure a monitor with a base of any size or shape to all equipment shelves on this page. The monitor screen remains fully adjustable. Black.



DESCRIPTION

Hook and loop type strap kit

NOTE is comed discensions such extensis would, hought and nepth unless specified atherwise

Mighty Mo overhead cable pathway racks provide cable management and an innovative mounting method for 19° rack mount copper and fiber panels and cabinets. The pathway racks allow horizontal connectivity to be supported by the overhead pathway freeing up valuable rack or cabinet space below.

OR-40401001



Mighty Mo Overhead Cable Pathway Rack

The Mighty Mo overhead cable pathway racks come with everything needed to mount the bracket to the side of Homaco runway with 1-1/2" stringers or any Cabloffi cable tray 2" or deeper, Black

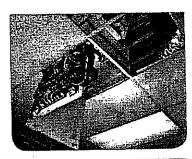


DESCRIPTION
2 rack units, 23.6"W x 7.4"H x 9"D,
90 lbs, capacity
5 rack units, 23.6"W x 12.6"H x 9"D,
90 lbs, capacity

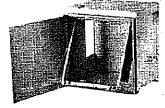
8 rack units,23.6"W x 18.1"H x 9"D, 90 lbs, capacity

MIGHTY MO CABLE MANAGEMENT SYSTEM

The Mighty Mo telecom enclosure combines advanced cable management with security and flexibility to change the way you bring high performance to the desktop. Based on the foundation of Mighty Mo technology, the telecom enclosure provides capacity for both active and passive equipment and can support up to 48 users.



OR-MMTECS822



Mighty Mo Celling Mount Telecom Enclosure

The Mighty Mo calling mount telecomenciosure has a unique patent pending swing gate design that allows for easy access to patching and equipment by simply opening the front cover. The swing-out access supports easy re-termination and includes dampening cylinders to control the speed of opening. The attractive exterior blends well with office decorand a lockable front door provides security and protection in public areas. Built-in cable management supports and organizes cables, ensuring proper bend radius.

Approved to UL-2043 for use in air handling spaces.



DESCRIPTION

Mighty Mo telecom enclosure, ceiling mount, 23.50° W x 23.50° H x 20.61° D, 10 rack units, 80 bs. capacity, Belge

NOTE: Patent pending



OR-MMTECFCBP



OR-MMTECFSP



Celting Mount Accessories



DESCRIPTION
Plate Kit - loctudes Fan Plate with
100 DFM fan, guard, 3 ft. cord with
plug, Cable Brush Plate, and mounting hardware, Black

Fire Stop Cable Plate Kit - includes intumescent foam and mounting hardware. Set of 2, Belge

OR-MMTEHMRZRU



Cable Management Panel

Doubla-sided cable management panel with front rings to manage patch cords and a rear trough with slots to protect and route terminated cables. Cable Management Accessory



DESCRIPTION

Cable management panel for the Mighty Mo telecom enclosure; 19:00° Wx 3.47° H x 6.75° D, 2 rack units:

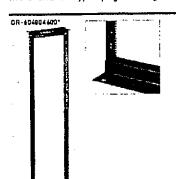
For additional product availability visit www.legrand.us/ortronics or contact sales at 800-934-5432

□ legrand | Ortronics



NPTE. Product dimensions are listed by width, freight and depth unless specified otherwise

Ortronics® 19" self supporting EIA rack is used for mounting a variety of telecommunications and data equipment. It consists of two U-channel type uprights 7' high, two base and two top support angle cross members, and is constructed of aluminum.



Self Supporting EiA Racks

Ortronics standard EIA self supporting rack with Mighty Mo universal pattern uprights, extruded base angles and top angles. Tapped EIA pattern front and rear and supplied with 50 #12-24 pilot point mounting scraws. Top flange is pre-punched to accept 6"-18" ladder racking. Assembly required. Black.



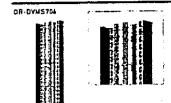
DESCRIPTION

19"W x 7"H, 44 rack units

OR-604004600 standard rack is UL* (listed.

NOTE: Ortronics standard EtA rack is pre-drilled to accept side mounting of all Mighty Mo vertical managers...





Standard Vertical Cable Management Cage with Cover

Mounts to the side of a standard EIA rack. The fingers are spaced to line up with rack units, promoting afficient routing of patch cords to patch panels and equipment from the vertical manager. Dual snap on hinged covers allow easy access during moves, add, and changes. Available in single-sided and double-sided versions.

NOTE: includes all hardware necessary to mount to the side of a standard EIA rack.



DESCRIPTION 3.75" x 6.58" x 7', single-sided 6.00" x 6.58" x 7', single-sided

3.75" x 6.58" x 8', single-sided 6.00" x 6.58" x 8', single-sided



DESCRIPTION

3.75" x 13.17" x 7", double-sided

6.00" x 13.17" x 7", double-sided

3.75" x 13.17" x 8", double-sided

6.00" x 13.17" x 8", double-sided

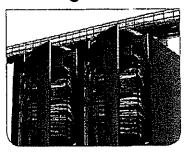
| legrand | Ortronics

MIGHTY MO® CABINETS

NOTE: Product dimensions are listed by oddfs, beight and depth unless specified otherwise

Enhanced Cable Management with Superior Airflow

A solid foundation is critical for superior network performance in high density applications. A poorly designed physical support system can have a devastating effect on the performance of the network. Ortronics® engineers have strategically designed Mighty Mo cabinets from the ground up to protect network integrity. Cable management is not just an add-on accessory, it is the basis for our design.



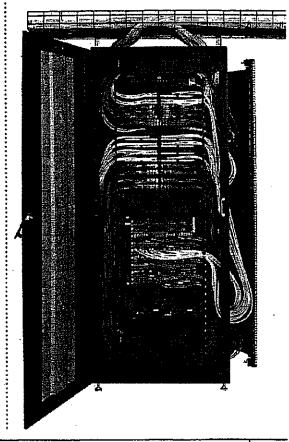
Ortronics' full line of free standing cabinets specifically addresses the cable management needs of today's high performance networks by:

- Purposefully repositioning the caster rails out of the cable pathway
- Properly routing the cables to minimize bends and turns, reducing the number of failure points
- Effectively managing entry and exit points from within the cabinet frame
- Offering advanced features such as bend limiting clips that snap on the rack unit spaced fingers where needed to protect
 fiber jumpers

The Mighty Mo cabinet is also ideal for maintaining cold-alste/hot alste airflow, whether your network equipment is front-to-back, bottom or side venting. Mighty Mo cabinet air flow baffles provide separation of hot and cold aisles and redirect air flow from side vented equipment so it matches the front to back airflow of servers.

Features:

- HEAVY DUTY CONSTRUCTION: Heavy-duty 14 ga. construction offers improved durability over conventional 16 ga. cabinets. Mighty Mo doors are especially designed to eliminate the irritating flex found in less well built cabinets.
- CABLE MANAGEMENT: Mighty Mo vertical and horizontal managers provide improved management for both servers and high density switches. Available bend limiters provide standards compliant protection for fiber and 10G copper patch cords.
- PASSIVE THERMAL MANAGEMENT: Mighty Mo baffles redirect the airflow of side vented equipment from front to rear ensuring the proper flow of air from cold aisle to hot alsle.
- THERMAL PROTECTION: A wide selection of top panels, lans and doors are available to ensure adequate ventilation is provided to keep equipment at the optimal operating conditions.
- SECURITY: Doors include locking handles to prevent unauthorized access and tampering. Side panels also come equipped with locks.
- MOBILITY: Levelers come standard with frames. Swivel casters are optional for added mobility.
- 180° DOOR SWING WITH SELF-CONTAINED HINGES: Self-contained hinges used on our surface mount doors have no removable pins that can be lost. These hinges aliminate aisle blockage when loading or performing maintenance on equipment without removing the door.
- FULLY CONFIGURABLE: Mighty Mo cabinets are built to your configuration and arrive fully assembled with all components installed and accessories included, reducing equipment deployment time and overall costs. Consult your local representative to configure a cabinet to your unique requirements.



PROFILE From the Stone 1,5 to the learning wider, he must properly determine rether their profile.

Legrand | Ortronics has assembled some of the most popular cabinet sizes and accessories together into easy to order part numbers.



Pre-Configured Server Cabinets

- Frame configured with cable opening at bottom rear
- Frame levelers
- a Two pairs of RU labeled mounting rails with 3/8" square holes
- Full profile mesh front door
- s Split flat mesh rear door
- a Two "L" shaped finger managers on rear rails
- Vertical PDU mount and lacing bar
- * Divider or side panels as stated below
- = Solid top panel in front
- = Cable entry top panel in rear
- Rack unit cage nuts #12-24 thread [package of 50]
- Two packages of 50 panel mounting screws #12-24 (total of 100)
- Additional adhesive rack unit labels (mounted inside of rear set of rails)
- · Black powder coat paint

Pre-Configured Server Cabinets



DESCRIPTION
Server Cabinet Sizes
[Depth includes doors].

42 RU x 24" wide x 42" deep

42 RU x 24" wide x 48" deep

47 RU x 24" wide x 48" deep

47 RU x 32" wide x 48" deep

42 RU x 32" wide x 48" deep

42 RU x 32" wide x 48" deep

47 RU x 32" wide x 48" deep

47 RU x 32" wide x 48" deep

"Divider" versions have a right side divider panel and ganging hardware (for within row)

"Side Panets" versions have a set of end panets (for stand alone or to create ends of row)

Pre-Configured Network Cabinets

- Frame configured with cable opening at bottom front
- e Frame levelers
- Two pairs of RU tabeled mounting rails with #12-24 tapped holes
- # Full profile plexiglas front door
- w Full flat solid rear door
- Two "L" shaped finger managers on front rails
- m Right and left locking side panels
- Fan top panel in front
- w Cable entry top panel in rear
- Package of 50 panel mounting scraws #12-24
- w Black powder cost paint

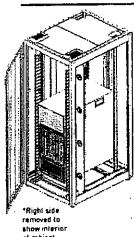
Pre-Configured Helwork Cabinets



42 RU x 32" W x 36" Q

NOTE: Product dimensions are listed by width, beight and death upless specified otherwise

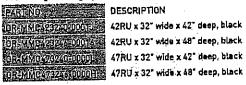
The Mighty Mo cabinets are designed around industry leading cable management systems that provide above the standard performance and capabilities for handling and supporting Cisco Nexus 7010 Data Center Switches.



Pre-Configured Cabinets for the Nexus 7010

- Frame configured with cable opening at bottom front
- Frame levelers
- Two pairs of RU labeled mounting rails with #12-24 tapped holes
- Full profile perforated front door and split flat mesh rear door
- Two "L" shaped finger managers on front rails with 12 band limiters
- Mighty Mo Cabinet Air Dam Kits for the Nexus 7010
- Right and left locking side panels
- Cable entry top panel on front and rear with brush guards on front
- Package of 58 panel mounting screws #12-24
- Black powder coat paint

Pre-Configured Mighty Mc Cabinets with Air Dam Kit



DESCRIPTION 42RU x 32" wide x 42" deep, black 42RU x 32" wide x 48" deep, black GR:MMe479240000000 47RU x 32" wide x 42" deep, black

NOTE: Product dimensions are listed by width, height and depth unless specified biherwise.

OR-MMC4ZYPHLS, OR-MMC4ZYPHLD

Vertical PDU Mount and Lacing Bars

Vertical PDU mount and lacing bars can be used to mount PDUs or to menage distribution cables routing from patch panels and equipment out of the cabinet.



DESCRIPTION :

Vertical POU Mount and Lacing Bar Single for 240 Frames

Vertical PDU Mount and Lacing Bar Single for 42U Frames

Vertical PDU Mount and Lacing Bar Single for 47U Frames

Vertical PDU Mount and Lacing Bar Double for 2AU Frames

Vertical PDU Mount and Lacing Bar Double for 420 Frames

Vertical PDU Mount and Lacing Bar Double for 47U Frames



Vertical Cable Trays

Vertical cable trays consist of a pre-cut section of $2^{\circ} \times 6^{\circ}$ Cablofil^a tray and mounting hardware designed to mount inside the cabinet and manage distribution cables routing from the patch panels and equipment but of the cabinet. It mounts to the strut inside the cabinet and can be adjusted front to back.



DESCRIPTION

Vertical Cable Tray 2" Wide X 6" Duep for 42U Frames

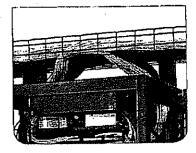
Horizontal Cable Capacities for Vertical Cable Tray

| | | | 24 CNT | VERTICAL CABLE TRAY CAPACITY | | |
|-----------------|--|--------------------------|-----------------|------------------------------|-------|--------|
| | , | uesas Panes | BUNDLE CABLE | Cat 5e | Cat 6 | Cat éa |
| PART NO. | DESCRIPTION | USABLE AREA (SQ. IN.) | O,D. (In.) | 1.125* | 1.25 | 1.625 |
| OR-MMC420206VCT | Vertical Cable Tray 2" Wide X 6" Deep for 42U Frames | 14 | | 240 | 168 | 96 |
| OR-MMC470206VCT | Vertical Cable Tray 2" Wide X 6" Deep for 47U Frames | 14 | | 240 | 168 | 96 |

Dlegrand | Ortronics

MIGHTY MO® CABINETS

HOTE from a deministrative relationary with, height and depth unless specified officewise



OR-MNCCTMB12-8



Cable tray mounting brackets

Cable tray mounting brackets mount to the top of the cabinet and utilize the Cablefil® FAS method to attach cable tray without additional hardware. Cable tray mounting brackets can be used alone or with the cable troughs. The mounting brackets are designed to maintain an even height when using Mighty Mo racks and cabinets together. The 42U cabinet frame will line up with the 7' rack and the 47U cabinet frame will line up with the B' rack.

Cable tray mounting brackets for 420 frames



DESCRIPTION



Cable Tray Mounting Bracket with Cablofil FAS style attachment for 6" wide tray, Basic Black

Cable Tray Mounting Bracket with Cablofil FAS style: attachment for 12" wide tray, Basic Black

Cable Tray Mounting Bracket with Cablefil FAS style attachment for 18" wide tray, Basic Black

NOTE: Replace 'B' with 'G' for Cool Gray.

Cable tray mounting brackets for 470 frames

DESCRIPTION



Cable Tray Mounting Bracket with Cablofil FAS style attachment for 6" wide tray, Basic Black

Cable Tray Mounting Bracket with Cablofil FAS style attachment for 12" wide tray, Basic Black

Cable Tray Mounting Bracket with Cablefil FAS style attachment for 18" wide tray, Basic Black

NOTE: Replace 'B' with 'G' for Cool Gray.

OR-MMC2412CTCE-B



Cable Troughs

Cable troughs mount on top of the cabinet frame and provide integrated overhead routing for cable. They are sized and pre-punched to interface with 6", 12" and 18" Cablofil cable tray directly, or can be used with the cable tray mounting bracket.

Cable Troughs



DESCRIPTION

Cable Trough, Center Exit, 6" Wide for 24"W Frames, Basic Black

Cable Trough, Center Exit, 12" Wide for 24"W Frames, Basic Black

Cable Trough, Center Exit, 18" Wide for 24"W Frames, Basic Black

Cable Trough, Center Exit, 6" Wide for 32"W Frames, Basic Black

Cable Trough, Center Exit, 12" Wide for 32"W Frames, Basic Black

Cable Trough, Center Exit, 18" Wide for 32"W Frames, Basic Black

NOTE: Replace 'B' with 'G' for Cool Gray.





Cable Trough Panel Brackets

Cable trough panel brackets mount to the underside of the cable trough and provide 3RU of 19" mounting space.

Cable trough panel brackets



DESCRIPTION

Cable Trough Panel Bracket, 3U for use with 24" wide cabinets, Basic Black Cable Trough Panel Bracket, 3U for use with 32" wide cabinets, Basic Black

NOTE: Replace 'B' with 'G' for Cool Gray.

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Cable Runway Mounting Brackets

Cable runway mounting brackets mount to the top of the cabinet and provide a surface for attaching 6°, 12°, 18° or 24° wide runway. The mounting brackets are designed to maintain an even-height when using Mighty Mo racks and cabinets together. The 42U frame will tine up with the 7′ racks and the 47U frame will line up with the 8′ racks.

Cable runway mounting brackets for 42U frames DESCRIPTION DESCRIPTION Cable Runway Mounting Bracket for 6" wide runway, Basic Black

Cebia Runway Mounting Bracket for 12" wide curway, Basic Black

Cable Runway Mounting Bracket for 18" wide runway, Basic Black

Cable Runway Mounting Bracket for 24" (wide runway on 420 Frames, Basic Black

NOTE: Replace 'B' with 'G' for Cool Gray

Cable runway mounting brackets for 47U frames

DESCRIPTION

CRIMMCDRMB4706-B CRIMMCDRMB4706-B CRIMMCDIMB4712-B CRIMMCDIMB4718-B

Cable Runway Mounting Bracket for 6" wide runway, Basic Black

Cabla Runway Mounting Bracket for 12" wide runway, Basic Black

Cable Runway Mounting Bracket for 18" wide runway, Basic Black

Cable Runway Mounting Bracket for 24" wide runway, Basic Black

NOTE: Replace 'B' with 'G' for Cool Gray.

OR-MMCMBK



GR-RU-1224CN



OR-MMCUN-1420-10



Hardware

The Ortronics® line of cabinet hardware provides the products needed to complete your installation. Reck Unit Cage Nuts enable easy and quick installation of three cage nuts simultaneously.



DESCRIPTION

Panel Mounting Screw, #12-24 x .625*, package of 50, Basic Black

Panel Mounting Screw, M&X1 x .625" long, peckage of 50, Clear

Rack Unit Cage Nuts, #12-24 thread package of 50, Clear

Reck Unit Cage Nuls, M6X1 thread, package of 50 Clear

Single Hole Cage Nuts, #12-24 thread package of 50, Clear

Single Hole Cage Nuts, MéX1 thread, package of 50, Clear

Cage Nut installation Tool

Multi-Bay Hardware Kit, 6 each 1/4-20 bolts

Unistrut* Hardware Kit, 10 each 1/4-20 bolts and Unistrut ruts

Adhesive Rack Unit Label, 60 RU length

Mighty Mo Bend Limiting Clip, 3.25" long, snaps onto fingers

NOTE: Find duct dimensions are troted by width, beight and depth unteral specified silverview

OR-MMCLVL-IP



Levelers/Isolation

Levelors come standard with the cabinet frame; however, additional parts may be ordered, isolation bushings are used to isolate the anchoring hardware from the frame of the cabinet.

| PART | NO. A. T. T. |
|---------|--------------|
| OR M | WELVISIP 17 |
| | 建设设设 |
| 70 PP V | MCISOB 38 3 |

DESCRIPTION

Levelers, 1/2-13 thread with Isolation Pads, Quantity: 4

Isolation Bushing for 3/8" Hardware, Quantity: 4 ORSMMCISOR 50% Isolation Bushing for 1/2" Hardware, Quantity: 4

OR-MMCDR2-1915



Shelves & Drawers

Legrand | Ortronics offers a full range of sturdy equipment shelves and drawers to protect and support valuable equipment. Mounting hardware is included, Basic black

OREMINICOSYVE 915.

DESCRIPTION

OR MIXCOSS12 912 Cantilevered Shelf, 1U, Solid, Steel, 19" x 12"D OR:MMCCSS2-1915. Cantilevered Shelf, 2U, Solid, Steel, 19" x 15"D Cantilevered Shelf, 3U, Solid, Steel, 19" x 15"D

> Cantileyered Shelf, 1U, Vented, Steel, 19" x 12"D Cantilevered Shelf, 2U Vented, Steel, 19" x 15"D. Cantilevered Shelf, 3U, Vented, Steet, 19" x 15"D

19" x 26" Deep, 4-point rackmount vented

MMC55YL-1924 Sliding Shell, 19" EIA, 24"D Vented, 4 Point, 100lb load rated MMCSSVM-1924 Stiding Shelf, 19" EIA, 24"D Vented, 4 Point, 150th load rated

Sliding Shelf, 19" EIA, 30"D Vented, 4 Point, 300th load rated

IDRIMMCDRA-1915 & Drawer, 4U, 19" x 15"D

OR MMCDR2:1915- Drawer, 2U, 191 x 151D

DR-MMCFPS-Z-B



Filler Panels

Improve network performance with Improved separation of the hot and cold aisle utilizing filler panels to control airitew

Filter Panels

PARTINO ORAMMOFRS 11-8 OREMINOFIPS 5-B

DESCRIPTION

1 Rack Unit, #12-24 Mtg. Hdware OR MMOFRS 2 11 2 Rack Unit, #12-24 Mtg. Howare ORENMOEPS:3/8 3 Reck Unit, #12-24 Mtg. Howere OREMMCERS 4.8 4 Rack Unit, #12-24 Mtg. Hdwara 5 Rack Unit, #12-24 Mtg. Hdwara 6 Rack Unit, #12-24 Mtg. Howard REMMORPHED By Tool-less for square mtg, holes, 1. Rack Unit

Tool-less for equare mtg. holes, 2 Rack Unit OR MMCFPT-2-8 Tool-less for square mtg. holes, 3 Rack Unit CREMMCFRT 3:8 Tool-less for square mtg. holes, 4 Rock Unit GREMMCFPT=4-B OHAMMCERT-8-8 Tool-less for square mtg. holes, 8 Rack Unit

OR-MMCFANPIR-4-7



Fan Panels

■ Use the 19" rack mount fan panel to eliminate hot spots

Fan Panels



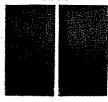
DESCRIPTION

Fan Panel, 197, (2) 47 110 CFM ea., 120 Volt, 24" Cord

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64870. Policy terminations are bland to write thought and caption and specified attentione

DR-MMCAB421412



Airflow Baffles

Airflow baffles ensure the proper flow of air from cold alste to hot aisle, even with side ventilated equipment. Air dam kits prevent hot air from recirculating and mixing with the cool air when used with equipment that breathes from to rear.

Airflow Baffles



DESCRIPTION

Airflow Baffia, for 32" wide 42 RU frame when mounting ralls are set at 16-1/4" front to rear and "U" shape vertical is installed

Airflow Buffle, for 32" wide 42 RU frame when mounting rails are set at 30" front to rear and "U" shape vertical is installed."

Airflow Baffle, for 32" wide 47 RU frame when mounting rails are set at 16-1/4" front to rear and "U" shape vertical is installed

Airflow Baffts, for 32" wide 47 RU frame when mounting rails are set at 30" front to rear and "U" shape vertical is installed

Airflow Baffle, for 32" wide 42 RU frame when mounting rails are set at 16-1/4" front to rear and side panels ere installed

Airflow Baitle, for 32" wide 47-RU frame when mounting rails, are set at 16-1/4" front to rear and side panels are installed

'Air Dam Kit, for 32" wide 42RU frame

Air Dam Kit, for 32° wide 47RU frame

DR-MMCFAN-6



Fans & Blowers

Replacement fens for the fan top plate. Fans include the cord, finger guard and mounting hardware.

Fans & Blowers



Replacement fan for top panels, 6" diameter, 120 Volt, 235 CFM, 24" Cord, Basic Black

Replacement fan for top panels, 6" diameter, 208 Volt, 235 CFM, 24" Cord, Basic Black

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OR-MMCPB11518-01

Basic PDU



Increased processing speeds require additional power distributed to each cabinet. Managing the power white minimizing the interference with the rack equipment and airflow is critical. The Ortronics* range includes 120V and 208V basic power distribution in 15, 20 and 30 amp sizes. Hardware is included to mount to vertical PDU mounting bar.

PARLING EXECUTE DESCRIPTION Basic 17.5" Horizontal PDU, 120V 15A, (10) NEMA VIMOREDING (SEU) 5-15 outlets, 5-15P input plug w/10' cord Basic 29.5" Vertical PDU, 120V 15A, [18] NEMA EMMCPB (15/6-0) 5-15 outlets, 5-15P input plug w/10' cord Basic 66,5" Vertical PDU, 120V 15A, [24] NEMA MMCBE (152450) 5-15 outlets, 5-15P input plug w/10' cord Basic 17:5" Horizontal PDU, 120V 20A, (10) NEMA 5-20 outlets, L5-20P input plug w/10" cord HEMINDER (ZINOS) Basic 29.5" Vertical PDU, 120V 20A, [18] NEMA 5-20 outlets, L5-20P input plug w/10' cord Basic 66,5" Vertical PDU, 120V 20A, [24] NEMA ROMINICED PROZECT 5-20 outlets, L5-20P input plug w/10' cord Basic 29:57 Vertical PDU, 120V 30A, (16) NEMA 5-20 outlets; L5-30P input plug w/10' cord rajuya asuppyikan Basic 66.5" Vertical PBU, 120V 30A, [24] NEMA REMIXIC PLANSING ALIM 5-20 outlets, L5-30P input plug W/10' cord Basic 17.5" Horizontal PDU, 208V 20A, (12) IEC FEONERRY 2012-0 C13 outlets, L4-20P input plug w/10' cord Basic 29.5" Vertical PDU 209V 20A, (18) IEC C13 MAINTENATOR outlate, L6-20P Input plug w/10' cord Basic 66.5" Vertical PDU, 208V 2DA, (24) IEC C13 outlets, La-20P input plug w/10 cord Basic 29.5" Vertical PDU, 208V 30A, [16] IEC C13 of HYDRE ERRORS OF outlets, L6-30P input plug w/10° cord Basic 66.5" Vertical PDU, 208V 30A, [24] (EC 013 MANAGE EXPLORED outlets, L6-30P input plug w/10' cord Basic 66,5" Vertical PDU, 208V 30A, [20] IEC [4] IEC C19 outlets, L6-30P Input plug w/10 cord

☐ legrand* | Ortronics

MIGHTY MO® CABINETS

OR-MMCPM22618-01

Metered PDU



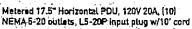
Increased processing speeds require additional power distributed to each cabinet. Monitoring and managing the power white minimizing the interference with the rack equipment and airflow is critical. Ortronics* options include 120V and 208V metered power distribution in 20 and 30 amp sizes. Hardware is included to mount to vertical PDU mounting bar.

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PARTITION

MMGBMJK074+0



Metered 29.5" Vertical PDU, 120V 20A, (18) NEMA 5-20 outlats, L5-20P input plug w/10' cord

Metered 66.5" Vertical PDU, 120V 20A, (24) NEMA 5-20 outlets, L5-20P input plug w/10' cord

Metered 29.5" Vertical PDU, 120V 30A, (16) NEMA 5-20 outlets; L5-30P input plug w/10' cord

Metered 66.5" Vertical PDU, 120V 30A, [24] NEMA 5-20 outlets, L5-30P input plug w/10" cord

Metered 17.5" Horizontal PDU, 208V 20A, (12) IEC 013 outlets; L6-20P input plug w/10" cord

Metered ZV 5" Vertical PDU; 208V 20A, (18) IEC £13 outlets, L6-20P Input plug w/10' cord

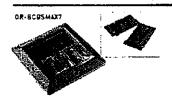
Metered 66.5" Vertical POU 208V 20A, (24) IEC C13 outlets, L6-20P Input plug w/10" cord

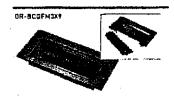
Meterad 29.5" Vertical PDU, 208Y 30A, (16) IEC C13 outlets, 1.6-30P Input plug w/10" cord

Militered 66.5" Vertical PDU 208V 30A (24) IEC C13 outlets, L6-30P input plug w/10' cord

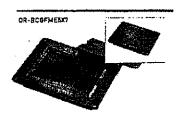
Metered 66.5" Vertical POU, 208V 30A, 1201 EC (4) IEC C19 outlets, L6-30P input plug w/10" cord

MOTO the digitation as a second court of the process of the proces









Air Guard® Brush Cable Grommets

Features:

- Provides an exceptional seal around cables for an effective and economical solution towards eliminating bypass air through cable cutouts.
- Provides an energy savings benefit by reducing cool air loss white.
 improving the static pressure to cool data center equipment.
- Helps prevent network equipment from overheating.
- Seats cable openings with an overtapping brush and/or EPDM gaskets to help prevent under-floor contamination.
- Floor tiles can be removed without disconnecting equipment.
- Flame retardant ABS polycarbonate material provides a finished look.



DESCRIPTION

Surface mount two place assembly designed to retroft around existing cables without the need to disconnect cables. Covers any shape or size up to 10° x 10°.

Flush mount two piece assembly designed for new installations in data centers to maximize energy efficiency. Designed with a removable back brush that allows for great versatility when floor tiles need to be removed.

Cover fits over the flush mount brush cable grommet to provide a solid surface for increased durability and safety when cables are not going through the floor.

Flush mount Extreme is a heavy duty unit with a two stage, integrated Gaaling system, EROM gasket material (UL74 HF-1 reted) and standard Air Guard brush technology, to provide the most effective air seal.

A heavy duty, integrated safety cover comes as a standard compoment. OSHA jobsite statutes require, open holes in floor panels to be covered. The cover may ramain in place unit cabling systems are installed and may be saved for future use.

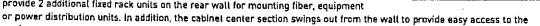
*The OR-BCOSM&X7 can mount to any standard Mighty Mo Cabinet cable entry top panel to provide a layer of protection from dust and debris. One two piece grommet will cover both openings in a cable entry top panet.

Dlegrand' Ortronics

MIGHTY MO® CABINETS

The Mighty Mo wall mount cabinets utilize advanced cable management to help secure, support and organize your network where floor space is limited.

Providing capacity for both active and passive equipment, the cabinets feature one-rack unit finger style vertical managers to ensure proper cable management for maximum network performance. An optional rear horizontal mount bracket kit is designed to provide 2 additional fixed rack units on the rear wall for mounting fiber, equipment



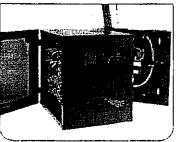
The front lockable wing turn latch allows you to secure the front door without having to lock the cabinet. This feature allows for easy access into the front of the cabinet when you are in a secure environment.

The Mighty Mo wall mount cabinets are also an ideal choice for mounting in an open office environment. The cabinet's heavy duty construction minimizes sagging under heavy loads and the optional 50cfm fan is 50% quieter than most other leading cabinets.



equipment.

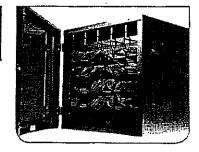
- Cable management to support and organize cables, ensuring proper cable management for minimum distortion and maximum network performance
- Choice of solid or plexiglass door
- The cabinet can be mounted to open left or right
- e. Locking center section swings out to provide easy access to the equipment
- * Front and center sections are keyed alike
- Includes one pair of fully adjustable 12-24 EIA mounting rails
- Brush cable entry plates standard on top rear
- Cable knockout plates standard on bettern rear
- 3" hole with cap standard on top and bottom rear
- Vented sides for passive cooling of active equipment
- Optional 50cfm cooling fans are available to further protect active equipment
- Heavy duty 14 GA (.075") steal construction



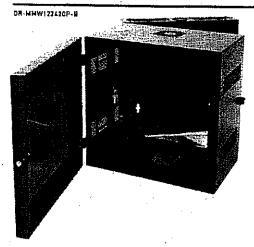
□ legrand | Ortronics

MIGHTY MO® CABINETS

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Mighty Mo® Wall Mount Cabinets

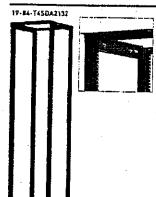


| ?@/ic | DESCRIPTION | WEIGHT CAPACITY | |
|-----------------------------|--|--------------------|--|
| 0 (24) (VV (24) (15) | 12U x 24"W x 20"D, Solld door, height is 23.50", Basic Black | 150 lbs | |
| 9 <u>6471</u> 000/042207-1 | 12U x 24"W x 20"D, Plexiglass door, height is 23.50", Basic Black | 150 (bs | |
| oje nikwe ya ya s | 19U x 24"W x 20"D. Solid door, height is 36.75", Basic Black | 200 lbs | |
| inida (jawa 1994) se | 19U x 24"W x 20"D, Plexiglass door, height is 35.75", Basic Black | 200 lbs | |
| ar tyrnyr gyatar a | 26U x 24 W x 20 D, Solid door, height is 49.00°, Basic Block | 300 lbs | |
| 015.8%[NIV22; 3/20]54: | 26U x 24 W x 20 D, Plexiglass door, height is 48.00°, Basic Black | 300 lbs | |
| णेखारा/शिक्षकाराह्म | 12U x 24"W.x 26"D, Solid door, height is 23.50", Basic Black | 150 lbs | |
| egrayirWii Ayara | 12U x 24 W x 26 D, Plexiglass door, height is 23.50 Besig Black | 150 lbs | |
| агнимуложия: | 19U x 24"W x 26"D, Solid door, haight is 35.75", Basic Black | 200 lbs | |
| distryverzazasa. | 19U x 24"W x 26"D, Plexigless door; height is 35.75", Basic Black | 200 lbs | |
| QHYKWESW/SH | ZóU x 24"W x 26"D, Sallid door, helght is 48.00", Basic Black | 300 lbs | |
| 9 cyllowydodydd i | 26U x 24"W x 26"D, Plaxiglass door, height is 48.00", Basic Black | 300 (bs | |

Mighty Mo wall mount cabinet accessories

| PARTONIC . | DESCRIPTION |
|------------------------|-----------------------------------|
| ORBYMORE (N. A.S.O.) | Fan Kit, 4", 50cm |
| atite dixivit Mayby to | Rear Horizontal Mount Bracket Kit |
| EDENMINERY | Brush Plate Kit |
| ORBYMW/(QV)25B | 12U Mounting Rail, 12-24, 1-pair |
| COLOURNAMENT OF STREET | 19U Mounting Rail, 12-24, 1-pair |
| OF MININGGANGED SE | 26U Mounting Rali, 12-24, 1-pair |

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Adjustable Dual **Equipment Racks**

The patented adjustable dual equipment rack provides an affordable, innovative solution for housing network equipment. Untike cabinets, its open design allows for expansion, so it is ready to adapt to future needs. The design also expands installation opportunities by enabling cross-connects, facilitating cable management, and eliminating heat build-up. Available with three adjustable depths, the rack provides a solid foundation for mounting hubs, routers, and other heavy equipment. Black finish.

- Features self-supporting and self-squaring base
- Assembles quickly and easily
- Top angles and patented reinforced base are standard
- Depth adjusts in 1/2-inch increments
- Mounting holes are roll threaded for 12-24 hardware
- Allows excellent cable management ออออสนกใช้จร
- m Mounts 19" equipment and includes crossrecessed black panel mounting screws
- 5/8", 5/8", 1/2" universal mounting hole pattern
- Equipped with standard 1/2" junctioning holes for securing multiple-rack lineups Constructed of 6061-T6 structural
- grade aluminum
- Maets EIA-310 standards
- Listed to the UL 1863 Standard for Communication Circuit Accessories

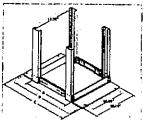


DESCRIPTION

84.00"H x 20.19"W x 15.00-20.00"0, ... rack spaces: [1,75"] 45. load rating: 1,000 lbs

84.00"H x 20.19"W x 21.00 32 00 D, rack spaces: (1.75*1 45, load rating: 1,000 lbs

96.00 H x 20,19 W x 21.00-32.0010, rack spaces: [1.75"] 51, load rating: 1,000 lbs



Equipment rack options self-support bases are 3-1/2" x 6" extruded aluminum angles mounted at the bottom of all standard Homaco equipment racks.

- 1520 15,00-20.00
- 2132 = 21.00-32.00" 1520 = 24.14-29.14
- 2132 30,14-41,14"
- 1520 = 26,00-31,00" 2132 - 32 00-43 00

17-84-SSDA2132



M6 Adjustable Dual Equipment Rack

Features:

- Self-squares to assemble quickly and easily
- Depth adjusts in 1/2" increments
- Open ventilation reduces the need for fans
- 5/8", 5/8", 1/2" square hole mounting pattern
- Notched markers beside hole pattern facilitate counting of rack spaces
- Base mounts to rack with the angles facing inward or outward; mount inward to use minimal floor space
- Universal L-shaped uprights allow for mounting of sliding server rails
- Steel construction allows 1000 lb. load rating
- Equipped with 1/2" junctioning holes for securing multiple-rack lineups
- Mounting hardware not included
- Black finish



DESCRIPTION

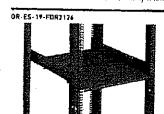
84.00"H x 20.19"W x 21-32"D, load rating: 1,000 lbs

*Depth does not include top angle, For full depth, add 3" **Black finish**



STANDARD EIA FLOOR & WALL MOUNT RACKING SYSTEMS

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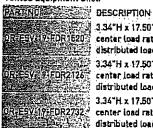


Adjustable **Equipment Shelves**

Features:

- Mounts to all adjustable dual racks
- # 12-24 cage nuts and acrews included
- Adjust in the same 1/2-inch increments as the rack
- Shelves do not include a front or back 90° bend
- w Easy to add and remove deep equipment
- · Mounted to all four uprights for maximum stability
- Black finish

Vented Equipment Shelf



3.34"H x 17.50"W x 15,-20"D; center load rating; 125 lbs; distributed load rating: 900 lbs 3.34"H x 17.50"W x 21- 26"D. center load rating: 125 lbs, distributed load rating: 300 lbs 3.34"H x 17.50"W x 27- 32"D. center load rating: 125 lbs, distributed load rating: 300 lbs

Load rating determined at .25" deflection.

Equipment Shalf



DESCRIPTION ' 3:34"H x.17.50"W x 15- 20"D, center load rating: 125 lbs. distributed load rating: 300 lbs 3.34"H x 17.50"W x 21- 24"D. center load rating: 125 lbs. distributed load rating: 300 lbs 3.34"H x 17,50"W x 27~ 32"D, center load rating: 125 lbs, distributed load rating: 300 lbs

Load rating determined at .25" deflection

OR-ESV-19-SDR2124F



Fixed Dual Shelves

Features:

- Mounts to all adjustable dual racks
- Heavy-duty for high load bearing. capacity
- Bottom brackets adjust to rack depth
- Easy to add and remove deep tnemqiups
- Fully usable surface area to accommodate servers
- Air flow slots ensure equipment is kept cool
- 12-24 cage nuts and screws hardware included
- Steel construction with black finish
- Black finish

Fixed Dual Shelves



1.947H x 19.00TW x 20.50TD, canter load rating: 125 lbs, distributed load rating: 300 lbs 1.94"H x 19.00"W x 26.50"D. center load rating: 125 lbs, distributed load rating: 300 lbs 1.94"H x 19.00"W x 32.50"D, center load rating: 125 lbs, distributed load rating: 300 lbs

Vented Equipment Shalf



DESCRIPTION 1.94°H x 19.00°W x 20.50°D; OR ESVA 17:50R 1520F; center load rating: 125 lbs. distributed load rating: 300 lbs 1.94"H x 19.00"W x 26.50"D. ESV-1935DR2126F, center load rating: 125 lbs. distributed load rating: 300 lbs 1.94"H x 19.00"W x 32,50"D, 192SDR2732F center load rating: 125 lbs. distributed load rating: 300 (bs

Load rating determined at 25" deflection

THE To report chromospores are to tentus, with chaight and depth unless specified offensive

OR-ESV-19-F572126



Adjustable Pull-Out Equipment Shelves

Features:

- Shelves glide forward and backward for equipment access
- Auto-lock function responds when fully extended
- Brackets secure the shelf to the rack when returned to its standard operating position
- # All shelves are vented
- Adjust in 1/2-inch increments
- M6DRSAK required when mounting on M6 rack
- Black finish



DESCRIPTION

4:13"H x 17,50"W x 20.17"U, load rating extended: 2751bs

4.13"H x 17.50"W x 24.17"D load rating extended: 275 lbs

4.13"H x 17.50"W x 32.17"D, toad reting extended: 275 lbs

Load rating determined by .50° deflection at end of extended shelf.

OR-MADRSAK



M6 Adapter Bracket

The M6 adapter bracket allows the adjustable pull-out equipment shelves to mount easily to M6 adjustable dual equipment racks. The adapter bracket attaches to the pull-out shelf mounting bracket to allow 12-24 mounting within M6 square holes.

Features:

- Converts adjustable pull-but equipment shelf-mounting on M6 adjustable dual racks
- Durable black finish
- # Four adapter brackets
- Mounting hardware included
- 12-gauge steel construction
- Meets EIA-310 standards



DESCRIPTION

3.50"H x 1.00"W x 3.19"D*

*Depth includes full depth (including bracket Mô latch hook).

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OR-DC1520-19



Adjustable Dual Rack Dust Cover

Features:

- Fully shields the self-support base opening to keep dust from accumulating
- Mounts on all adjustable dual racks
- Provides a clean installation
- Three-piece cover exsity assembles without the use of tools
- Constructed of 16-gauge steel
- Black finish

Vented Equipment Shelf



DESCRIPTION

19.38 W x 15.00-20.00 D, 10.1bs

19.38"W x 21.00-26.00"D, 12.05

19.38 W x 27.00-32.00 D, 15 ths

OR-RRIC-S



Adjustable Dual Rack Runway Kit

Features:

- Mounts runway to adjustable dual equipment rack
- Brackets create a strong bond between the rack and the runway for solid overhead cable support
- Includes two top angle brackets and two side brackets for parallel or perpendicular mounting

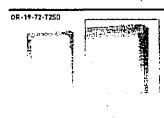


DESCRIPTION

Adjustable dual rack runway bracket kit, 1 lb

Clear zinc plated.

MOTE fundant demonstrate are listed by width, height and depth unless specified otherwise.



Standard Equipment Racks

The Homaco® computer-guided manufacturing process assures that each rack meets exact dimensions, guaranteeing a self-squaring assembly. Made of top quality 6061-T6 structural grade aluminum, Ortronics equipment racks provide strength and stability for years. Racks ship unassembled for efficient delivery and storage.

- Self-squaring and self-supporting
- Tapped uprights so no nuts are required for assembly
- Top angles, patented self-support base are standard
- Assembly hardware included
- Mounting holes are roll formed for work hardened thread system
- Includes 12-24 cross-recessed black panel mounting screws
- Constructed of 6061-T6 structural-grade aluminum
- 3" x 1 1/4" channel uprights

Specifications:

- 5/8", 5/8", 1/2" universal mounting hole pattern
- Equipped with 1/2" junctioning holes for securing multiple-rack lineups
- Meets EIA-310 standards
- Listed to the UL 1863 Standard for Communication Circuit Accessories

19" Rack - 3" Channel



72.00"H x 20.19"W x 15.00"D, rack spaces: 38, channel width: 3, load rating: 750 lbs

84.00"H x 20.19"W x 15.00"D, rack spaces: 45, channel width: 3, load rating: 750 lbs

96,00°H x 20,19°W x 15.00°D, rack spaces; 51, channel width: 3, load rating: 750 lbs

Átuminum finish. Add "B" to part number for black finish.

19" Rack - 6" Channel



DESCRIPTION!

DESCRIPTION

84.00°H x 20.19°W x 18.00°D, rack spaces: 45, channel width: 6, load rating: 750 lbs

Black finish.

23" Rack - 9" Channel



72.00"H x 24.19"W x 15:00"D,

rack spaces: BB, channel width: 3, load rating: 750 lbs

84,00"H x 24.19"W x 15.00"D, rack spaces: 45, channel width: 3, load rating: 750 lbs

76.00"H x 24.19"W x 15.00"D, rack spaces: 51, channel width: 3, load rating: 750 lbs

Aluminum finish. Add 18° to part number for black finish.

23" Rack - 6" Chennel



DESCRIPTION

84,00°H x 24,19°W x 18,00°D, rack spaces: 45, channel width: 6, load rating: 750 lbs

Black (ionsh.

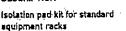


Equipment Rack isolation Pad Kit

Isolates equipment racks from concrete floors for effective bonding and grounding



DESCRIPTION



and do

OR-SVMS704

Standard Vertical Cable Management Cage with Cover

and by the gent and area to see any signal digg at back, but

Mounts to the side of a standard EIA rack. The fingers are spaced to line up with rack units, promoting efficient routing of patch cords to patch panels and equipment from the vartical manager. Dual snap on hinged covers allow easy access during moves, add, and changes. Available in single-sided and double-sided versions.

NOTE: Includes all hardware necessary to mount to the side of a standard EIA rack.

Single-sided



DESORIPTION
3.75° x 6.58° x 7', single-sided
6.00° x 6.58° x 7', single-sided
3.75° x 6.58° x 8', single-sided

Double-sided



DESCRIPTION

3.75° x 13.17° x 7', double-sided

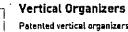
6.00" x 6.58" x 8', single-sided

6,00° x 13.17° x 7°, double-sided 3.75° x 13.17° x 8°, double-sided

6.00" x 13.17" x 8", double-sided

OR-VO-84-TAFTE





Patented vertical organizers save time and money during moves, adds, and changes to patch penels. Rings in the front organize patch cords with ease. A rear, U-shaped channel is formed either between aquipment racks or at the end of a lineup to provide a pathway for delivering horizontal cables to patch panels. The 6" width is used between fully loaded rack; the 3" width is used with a single rack, at the end of a lineup or between partially loaded racks. Black

Features:

- Rings are spaced 9" apart, center ring is spaced 13" apart from others
- Three-inch organizers (2.63°W x 4.13°D) accommodate 130 Cat Se patch cords at 40% fill
- Six-inch organizers (5.63°W x 4.13°D) accommodate 276 Cat 5e patch cords at 40% fill
- Shipped in two sections for easy on-site assembly
- Sturdy steel construction
- Mounting hardware included: 6 of each:
 3/8 hex nuts, 3/8 bolts, 3/8 lock washers,
 3/8 flat washers
- Fits all EIA-310 compliant equipment racks





Solid, channel width: 3", B0.00 "H x 3.00"W x 5.31"D

Solid, chamet width: 6", 80,00"H x 6,00"W x 5.31"D

Feed-through holes, channel width: 3", 80.00"H x 3.00"W x 6.31"D

Feed-through holes, channel width: 6", 80.00"H x 6.00"W x 5.31"D

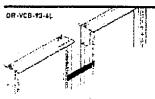
Solid, channel width: 3°, 92:00°H x 3,00°W x 5,31°D

Solid, changel width: 6", 92.00" H x 6.00" W x 5.31"D

Feed-through holes, channel width: 3", 92.00"H x 3.00"W x 5.31"D

Feed-through holes, channel width: 6", 92.00"H x 6.00"W x 5.31"D

NOTE. Product domensions are listed by wattly, beight and depth unless specified otherwise.



Vertical Control Brackets

Vertical control brackets attach to equipment racks to provide secure backside cable containment; Legrand | Ortronics recommends using four brackets on an 84" rack.

Features:

- Use with 6" vertical organizers for double-sided management
- Sold individually
- Includes 12-24 mounting hardware
- Constructed of steel

Usa with 6" wide Vertical Organizars





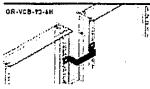
DESCRIPTION Cable capacity: 216, 1.00"H x 8.56"W x 0.06"D

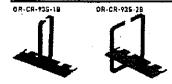
Cable capacity: 216, 1.00"H x 7.28"W x 2.73"D

Cable capacity: 432, 1,00°H x 8,56°W x 6,00°D

Cable capacity: 432, 1.00°H x 7.28°W x 3.69°D

Black finish. Cable capacities are based on CatSe cable and a 40% fill.





QR-CR-735-3B QR-CR-735-48

Cable Rings

Features:

- Mount to any equipment rack, including Swing-EZs, for versatile vertical jumper management
- Channel cables from the floor or ceiling to patch panels
- CR-93S-1B and CR-93S-3B rings fit within the width of a rack; they are designed for smaller, single-rack installations or where the width of the rack cannot be exceeded
- Larger capacity CR-935-2B and CR-935-4B rings mount between adjacent racks and equal the combined width of the rack channels; they are designed for multiple rack installations
- Slotted mounting holes for easy installation; able to mount beneath pre-installed equipment
- # Includes 12-24 mounting hardware
- Constructed of 12-gauge steel
- . Sold individually



DESCRIPTION Inside ring dimensions: 0.71°W x 2.50°D,

rack spaces: 2, cable capacity: 27

Inside ring dimensions: 2.19°W x 2.50°D, rack spaces: 2, cable capacity: 65 Inside ring dimensions: 0.91°W x 4.75°D, fack spaces: 2, catle capacity: 51°

cable capacity: 51 Inside ring dimensions: 2.19°W x 4.75°D, rack/spaces: 2, cable capacity: 124

Black firesh. Cable capacity based on Cal Se cable

कृति है। है है के अपने कार कार कार कार कार कर है के उन्हें के उन्हों के उन्होंने कार्य संस्थान कि कि कि कार कि

GR-CB-#3-6



Cable Brackets

Features:

- Attach to any equipment rack to secure cable
- Used for routing vertically
 Includes 12-24 mounting hardware
- Constructed of steet



DESCRIPTION

0.76°H x 0.71°W x 6.00°D

0.75"H x 0.71"W x 7.00"D

0.75 H x 0.71 W x 8.00 D

Ŧ

Gray finish. Add "B" to part number for black finish

DR-RRJC-T



Runway Bracket Kit

Mount runway to equipment racks using the runway bracket kit. J-Bolts secure the brackets to the top angles of racks and create a solid connection between the rack and runway. The kit is easy to install and includes all required hardware.

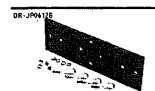


DESCRIPTION

Runway bracket kit

Clear zinc plated.

NOTE: Product dimensions are instead by winter height and depth poless specified otherwise



Junction Plate

Used for junctioning cable runway and equipment racks. Runway can be junctioned parallel or perpendicular to rack. Hardware included.

For racks with 3" uprights



DESCRIPTION 7,50°L x 4,00°W x 0,25°D, for tise with runway up to 6" wide

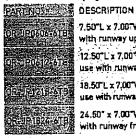
12.50"L x 4.00"W x 0.25"D, for use with runway from 67-12" wide

18.50"L x 4.00"W x 0.25"D, for use with runway from 12"-18" wide

24.50"L x 4.00"W x 0.25"D, for use with runway from 16" - 24" wide:

Black finish.

For racks with 4" uprights



7.50°L x 7.00°W x 0.25°D, for use with runway up to 8" wide 12.50°L'x 7.00°W x 0.25°D, for use with runway from 6"-12" wide 18.50"L x 7.00"W x 0.25"D, for use with runway from 12"-16" wide

24,50" x 7,00"W x 0,25"D, for use with runway from 18"-24" wide

Stack flowsh

OR-OC-19



Dust Cover

Features:

- # Fully shields the self-support base opening to keep dust from accumulating
- Provides a clean installation
- Cover easily assembles without the use of tools
- Constructed of 16-gauge steel

For racks with 3" uprights



DESCRIPTION 0.75"H x 19.88"W x 5.30"D

0.75"H x 23.88"W x 5.30"D

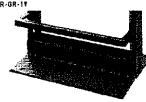
Gray finish. Add "B" to part number for black finish.

For racks with 6" uprights



0.75°H x 19.88°W x 8.30°D

0.75"H x 23.88"W x 8.30"D



Guard Rail

Features:

- Protects equipment from accidents
- One guard rail per order
- Sturdy steel construction
- Mounting hardware included



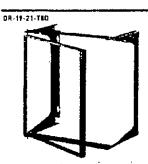
DESCRIPTION

2.88"H x 19.81"W x 4.50"D

2.88"H x 23.81"W x 4.50"D

Gray finish. Add "B" to part number for black finish.

INDECTION I universions are lessed by width, he glit and depth enters specified otherwise



Swing-EZ Wall Racks

The patented Swing-EZ wall rack arrives ready to square and keyholes mount in minutes. Reinforcement plates stabilize the frame to allow maximum load bearing capacity. Hub and LAN applications are easily accommodated without door deflection. Latch pins or bolts secure the door to the frame and remove to swing open smoothly from the left or right.

- Opens to allow easy access to terminations without disturbing terminations
- # Both tatch pins and bolts are included
- Hook and loop straps feed into stots for backside cable management.
- Side panels fold flat for skipping, then unfold for easy on-site assembly
- 5/8", 5/8", 1/2" universal mounting hole pattern
- Mounting holes threaded for 12-24 hardware
- Includes cross-recessed 12-24 black panel mounting screws
- Made of steal
- Meets EIA-310 standards
- Listed to the UL 1863 Standard for Communications Circuit Accessories

| PARTENCIA, | DESCRIPTION |
|--|---|
| | 21,00°H x 19,75°W x 8.00°D, |
| OR-19-21-T80: | rack spaces (1.75"): 11, |
| in the second second | load rating: 75 lbs |
| | · · |
| | 35.00°H x 19.75°W x 8.00°D, |
| 0813.35-18D | rack spaces (1.75*): 19, |
| | load rating: 75 lbs |
| | 904 BORU 400 BERLU 40 BORD |
| | 21.00"H x 19.75"W x.12.00"D, |
| OR-19-21-T12D | rack spaces (1.75"): 11, load rating: 75 lbs |
| | fran lamift: 10 ma |
| | 35.00°H x 19.75°W x 12.00°D, |
| OR 39-35-112D | rack spaces (1.75°): 19, |
| | load rating: 76 lbs |
| | |
| | 48.00"H x 19.75"W x 12.00"D, |
| OR 12:48:T12D | rack spaces (1.75°): 26, |
| | load rating: 75 tbs |
| | |
| | ,21,00°H x 19,75°W x 18,00°D, |
| DF-17-21-T18D | rack spaces (1.75%; 11, |
| | load rating: 75 lbs |
| | 35,00"H x 19,75"W x 18,00"D, |
| ORZ19-35-J18D | rack spaces [1.75"]: 19, |
| | load rating: 75 lbs |
| W. | |
| | 48.00"H x 19,75"W x 18.00"D, |
| DE-19-28-T18D" | rack spaces (1.75"): 26, |
| | load rating: 75 Us |
| The state of the s | 04 00714 40 0EMA(0E 007D |
| | 21.00"H x 19.75"W x 25.00"D, |
| DR 514-24-T25D | rack spaces (1.75°): 11, load rating: 76 lbs |
| | roso rating: ro wa |
| | 35:00"H x 19:75"W x 25:00"D, |
| OR 0 9-35-T-25D-7 | racicspaces (1.75°); 19, |
| | load rating: 75 lbs |
| | |
| | 48.00"H x 19.75"W x 25.00"D |
| OR = 19-48-T25D | rack spaces (1.75"): 26 |
| | load rating: 75 lbs |
| The state of the s | • |

Gray finish. Add "B" to part number for black finish. Load rating based on using swing feature. Load increases when fixed,

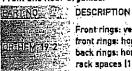
DR-HEM-19-2



Cable Management **Products for Swing-EZs**

Ortronics cable management panels. provide organized patch cables horizontally and vertically on Swing-EZ wall mount racks. Color is black.

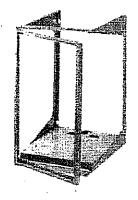
Front and Rear Organizer



Front rings: vertical 1.75"W x 3.75"D, front rings: horizontal 1.75°H x 1.76°D, back rings; horizontal 2.50"H x 1.62"D, rack spaces (1.75"): 2

MOTE. Product simeosees are listed by width longht and depth incess specified otherwise

OR-19-35-T25DHYDT



Heavy Duty Swing-EZ Wall Racks

Patented heavy duty Swing-EZ wall racks are designed to mount heavier networking equipment in tight closets. A 12-gauge steel reinforcement pan attached to the bottom of the rack provides added strength. The pan works in conjunction with the stabilization plates and the self-squaring feature, allowing sturdy, dependable 150-pound equipment loads. The 25° depth allows plenty of room to open and close fully loaded with patch panels, hubs and routers.

Features:

- 150-lb load rating accommodates hubs and routers
- Swings open to the left or right for access to terminations
- Hook and loop straps included for backside cable management
- Self-squaring assembly
- Mounting hotes threaded for 12-24 hardware
- Includes cross-recessed black panel mounting screws
- = 5/8", 5/8", 1/2" universal mounting hole pattern
- Meets EIA-310 standards
- Made of steel
- Both latch pins and bolts included for easy rear access
- Listed to the UL 1863 standard for Communications Circuit Accessories



DESCRIPTION

24.25"H x 19.75" W x 25.007D, rack spaces: 11, load rating: 150 lbs

38.25"H x 19:75" W x 25.00"D, rack spaces: 19, load rating: 150 lbs

Bray finish. Add "B" to part number for black finish.

WTT From act dependient the listed by and hybrid and depth unless specified otherwise

Ortronics* wall mount racks and hinged wall mount brackets are designed for applications where space is critical. Their wall mount design increases closet wiring capacity while allowing rear access to patch panels and equipment.

OR-604045400



Wall Mount Racks

Ortronics Watt Mounted Racks offer the flaxibility of an 18" (457 mm) deep walt mounted unit for mounting telecommunications and data equipment. They are available in three-heights, with front swing gates and 19" #12-24 threaded EIA pattern. Black.



DESCRIPTION

20.25" x 16" x 26". 12 rack units, load rating: 75 lbs

20.25" x 18" x 38", 18 rack units, load rating: 100 lbs 20.25" x 18" x 50", 25 rack units, load rating: 125 lbs

NOTE: Fully assembled, supplied with 10 self-adhesive saddles and 12.6" hook and loop straps.

DR-404045450



OR-404045451



□ legrand | Ortronics

STANDARD EIA FLOOR & WALL MOUNT RACKING SYSTEMS

MOTE. Finduct dimensions are listed by width, beight and depth unless specified ninerwise.

OR-604804396



DR-404004301



OR-401004048



OR-404004445



Hinged Wall Mount Brackets

Ortronics* hinged wall mount brackets meet smaller system requirements and allow easy access to the rear of the panels. Hotes in back allow for rear cable feed through. These brackets are available in four heights, with 19" #12-24 threaded EIA pattern. Fully assembled. Black.



DESCRIPTION 19" x 6" x 3.5", 2 rack units

19" x 6" x 5.25", 3 rack units

19" x 6" x 7", 4 rack units

19" x 6" x 10.5", 6 rack units

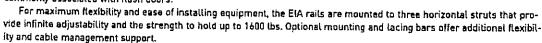
Li legrand Ortronics

DATACAB CABINETS

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NEW

The new Ortronics® DataCab server cabinets are built around a solid foundation. Every steel frame section is designed with a minimum of five bends that are interlocked and fully welded for exceptional strength and rigidity. The space saving, low profile door is constructed with extra reinforcing welded rails creating a thin, yet rugged design, not commonly associated with flush doors.



The cabinets are available in widths of 24" and 28" and depths of 40" and 46". Heights of 42 rack units (80.25") and 47 rack units (89") are available.

Features

- Full flat mesh front door with locking swing handle
- Split flat mesh rear doors with locking swing handle and two point latching
- Two side panels with latches and locks keyed alike to the doors
- Reversible single top panel with four 3" diameter cable entry holes and bushings
- Fully welded steel frame with leveling feet standard
- Two pairs of 19" EIA mounting rails with 3/6" square holes
- Rack unit numbers printed on all EIA rails
- EIA rails include integrated lacing slots for additional cable management
- Cage nots #12-24 thread (package of 25)
- Panel mounting screws #12-24 [package of 25]
- 40° deep cabinet includes one single width PDU mounting bar
- 46" deep cabinet includes one double width PDU mounting bar

DataCab Server Cabinets

QR-DCC422846-00002





DESCRIPTION

42U x 24 W x 46 D, height is 80.25 basic black

42U x 24 W x 46 D, height is 80.25 basic black

47U x 24 W x 46 D, height is 87 basic black

47U x 24 W x 46 D, height is 87 basic black

47U x 28 W x 46 D, height is 87 basic black

42U x 28 W x 46 D, height is 80.25 basic black

47U x 28 W x 46 D, height is 80.25 basic black

47U x 28 W x 46 D, height is 87 basic black

DetaCab Accessories



DESCRIPTION.

Caster kit with corner brackets and 3" swiyel casters
Verticat PDU mount and tacing ber, single, 42U,
with mounting hardware, basic black
Vertical PDU mount and tacing bar, single, 47U,
with mounting hardware, basic black
Vertical PDU mount and tacing bar, double, 42U,
with mounting hardware, basic black
Vertical PDU mount and tacing bar, double, 47U,
with mounting hardware, basic black

For additional product availability visit www.tegrand.us/ortronics or contact sales at 800-934-5432

□ legrand | Ortronics

DATACAB WALL MOUNT CABINETS

NOTE. Product dimensions are listed by width, height and depth unless specified otherwise

NEW

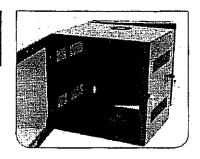
The new Ortronics® DataCab wall mount cabinets are perfect for both active equipment and passive zone cabling. The thin line front door construction offers more room in the center section to provide easy access to the equipment.

The heavy duty construction of the cabinet minimizes sagging under heavy toads. The hinge side placement of the rear section mounting holes provides additional support when the center section is open for terminations.

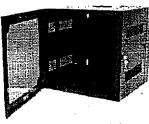
The sides of the cabinet are vented for passive cooling of the active equipment, and the optional 50cfm fan is 50% quieter than the fans of most other leading cabinets.

Features

- Choice of solid or plexiglass door
- Locking center section swings out to provide easy access
- Door and center section are keyed alike
- Includes one pair of fully adjustable 12-24 EIA mounting rails
- Heavy duty welded steel construction
- Vented sides for passive cooling of active equipment
- Optional 50cfm cooling fans are available to further protect active equipment



08-0CW1224246-5



DataCab Wall Mount Cabinets

The DataCab wall mount cabinet comes standard with four removable cable knock-out panels on the rear section. Each section contains one knock-out that can be 1-3/8" or 2" diameter and two knockouts that can be 7/8" or 1-1/8" diameter.



| |
|---|
| DESCRIPTION WEIGHT CAPACITY |
| 12U x 24 W x 24 D, solid dopr height is 23.50", basic black 125 lbs |
| 12U x 24°W x 24°D, plexiglass door, 125 lbs height is 23,50°, basic black. |
| 19U x 24"W x 24"D, solld door; height is 35.75", basic black |
| 190 x 24 W x 24 D, plexiglass door, 150 lbs |

DataCab Accessorio



DESCRIPTION

Fan kit, 4", 50cfm with finger guard and 2' power cord

Brush plate kit

12U mounting rail, 12-24, one-pair

19U mounting rail, 12-24, one-pair

Complete cable management maximizes system performance. Legrand | Ortronics has the largest selection of horizontal cable managers in the industry. This wide array of panel styles will meet all cable management requirements.

Cable Management Panels

panels provide organized movement of patch cables horizontally and vertically on 17" EIA distribution

Ortronics* cable management

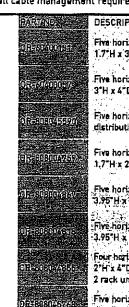
racks. Black.

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DR-40400087 PR-802045590 OR-808804759 OR-808004847 GR-809004816 OR-808044955

OR-808045748

08-60400131



DESCRIPTION Five horizontal distribution rings, 1.7"H x 3.5"D, 1 rack unit Five horizontal distribution rings, 3°H x 4°D, 2 rack units Five horizontal polycarbonate plastic distribution rings, 1.7"H x 6"D, 1 rack unit Five horizontal plantic distribution rings, 1,7"H;x 2.70"D, 1 rack unit Five horizontal plastic distribution rings, 3.95°H x 2.4°D, 2 rack units Five horizontal plastic distribution rings, 3.95"H x 4.8"D; 2 rack units Four horizontal, four vartical distribution rings, 2"H'x 4"D, 24 routing clips, .10"W x 2.63"D, 2 rack units Five horizontal polycarbonate plastic 🗽 distribution rings, 1.7"H x 3"D, 1 rack unit

NOTE: Includes #12-24 mounting hardware.

Dlegrand' | Ortronics

HORIZONTAL CABLE MANAGEMENT, SHELVES & ACCESSORIES

CA-40409129

OR-808044914



Feed-Through Cable Management Panels

Ortronics feed-through cable management panels provide organized management of patch cables horizontally, vertically, and from front to back on 19° EIA distribution racks.

Color is black.

OR-60/00-79 OR-60/00-79 OR-60/00-79 OR-60/00-79 OR-60/00-79

DESCRIPTION

Five horizontal distribution rings, 1.7°H x 3.5°D, four 1° x 2° cutouts, 1 rack unit

Five horizontal distribution rings, 3"H x 2"D, four 1.5" x 2" cutouts, 2 rack units

Five horizontal distribution rings, 3"H x 4"D, four 2.75" x 2.75" cutouts, 2 rack units

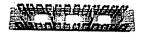
Four horizontal, distribution rings, 2"H x 4"D, 24 routing clips, .10"W x 2.63"D, three 1.5" x 2" cutouts, 2 rack units

NOTE: Includes #12-24 mounting hardware.

0R-40400474



OR-808044915



NGTE ने अविधान demensions sue listed by width, height and nepth imiess specified nitremise.

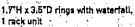
OR-40400187



Bend Limiting Cable Management Panels

Ortronics* bend limiting cable management panels have curved falls that protect against cable crimping and also maintain proper bend radius. The panels are ideat at the top of standard 19° EIA racks. Black, DESCRIPTION

PARTINO



3.5"H x 3.5"D rings with waterfall, 2 rack units

3.5"H x 6"D rings with waterfall, 2 rack units

7"H x 4.5"D rings with waterfall, 4 rack units

7"H x 7"D rings with waterfall, 4 rack units

NOTE: Includes #12-24 mounting hardware.

OR-60400077



DR-4D400114



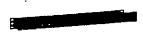
DR-60400078



OR-40400054



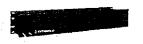
OR-808090010



OR-804044508



OR-808044549



GR-608045030



Finger Duct Cable Management Panels

Ortronics closed cover finger duct cable management panels provide organized movement for horizontal and vartical routing of patch cables on 19" EIA distribution racks. Black.



DESCRIPTION

1,5"H x 1.5"D duct, 1 rack unit.

3"H x 1.6"D duct, 2 rack units

3"H x 3"D duct, 2 rack units

Front and rear ducts, 3"H x 3"D front duct, 2"H x 4"D rear duct, 2 rack units

NOTE: Includes #12-24 mounting hardware.

Datable

SPATE. To odular movems sees are listed by wrater thought and depth unless specified otherwise

OR-FCM-19-IXL



OR-FCM-IT-IXL



DR-FCM-17-2XLH*





interbay Organizers

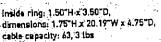
Ideal for bulk routing patch cords between bays and within bays to eliminate congestion, interbay organizers are larger in capacity than patch cord organizers. Express routes make it easy to trace and maintain circuits.

Features:

FCM-19-1XL, FCM-19-2XL and FCM-19-2XLH should be mounted at the top, center or bottom of equipment racks. FCM-19-2XLH features feed-through holes to accommodate front-to-back jumpering

- The larger-capacity FCM-19-4XL is mounted at the top or bottom of a rack
- Rounded ring edges protect cables
- Constructed of 16-gauge steel
- Welded cable rings also constructed of steel for maximum support

DESCRIPTION



Inside ring: 3,00°H x 3,50°D, dimensions: 3,50°H x 20,19°W x 4,94°D, cable capacity: 126, 4 lbs

Inside ring; 3.00TH x 3.50TD, dimensions: 3.50TH x 20.19TW x 4.94TD, cable capacity; 126, 4 lbs

Inside ring: 6.50°H x 3.50°D, dimensions: 7.00°H x 20.19°W x 4.00°D, cable capacity: 273, 7 lbs

Black finish, "H = feed-through holes. Cable capacity based on .215 cable diameter.

NOTE Product durantum care instead by endth, broads and departmenters specified attraction

OR-FCM-11-1

Juna Mary

OR-FCM-19-15R



OR-FCH-19-15RC



OR-FCM-19-2



OR-FCM-19-25R



DR-FCM-19-25RC*



OR-FCM-19-2L

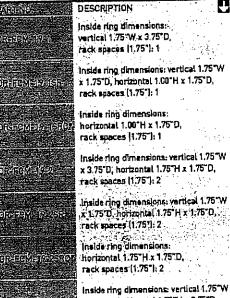


Patch Cord Organizers

Patch cord organizers create horizontal and vertical pathways for frontside cable management. Designed for use with patch panels, the organizers simplify the tracing, identifying and rerouting of patch cords.

Features:

- FCMs with side rings help manage wall rack installations
- Use rack adapters when mounting organizers to 23" racks
- Made of 16-gauge steet
- 1SR and 1SRC made of 18-gauge steel



x 3.75°D, horizontal 1.75°H x 3.75°D, rack spaces (1.75°H: 2

Black finish. * Recommended for use with vertical organizers ipage 109). Can also be used in cabinet installations.

legrand Ortronics

HORIZONTAL CABLE MANAGEMENT, SHELVES & ACCESSORIES

MONE Through processor and finishing widos for old and depth antimes specially of the west

Legrand | Ortronics offers a full range of sturdy equipment shelves to support valuable equipment. From vented equipment shelves to the folding keyboard shelf, there is a shelf to fit every need.

NOTE: #12-24 mounting hardware included with all shelves.



OR-60400464



Equipment Shelves

Ortronics^e equipment shelf supports miscellaneous equipment or test gear. Can be mounted on standard 19" EIA racks, Inside shalf width is 17°, Black.



DESCRIPTION

19" x 5. 25" x 10.13", 75 lbs capacity

19" x 5,25" x 12,13", 75 lbs capacity

19" x 5.25" x 15.13", 75 lbs capacity





OR-40400405



Equipment Shelves

Features:



- Heavy-duty 16-gauge steel accommodates heavy equipment.
- Depth variety matches Installation needs
- Patented shelf can be mounted upside down
- Vented to allow air flow beneath mounted equipment
- Mounting hardware included

Solid Version



DESCRIPTION

3.50"H x 17.38"W x 15.50"D, rack spaces: 2, load rating: 150 lbs 3,50°H x 17,38°W x 21,75°D, rack spaces; 2, load rating: 150 tos 3,50"H x 21,38"W x 15,50"D, rack spaces: 2, Load rating: 150 lbs

3.50"H x 21.38"W x 21.75 D, rack spaces: 2, load rating: 150 lbs

Vented Version



DESCRIPTION

3,50"H x 17,38"W x 15,50"D, rack spaces: 2, load rating: 150 lbs 3.50°H x 17.38°W x 21.75°D, rack spaces: 2 load rating: 150 lbs 3.50"H x 21.38"W x 15.50"D, rack spaces: 2, load rating: 150 lbs 3.50"H x 21.38"W x 21.75"D, rack spaces: 2,

load rating: 150 lbs

Black linish.

For additional product availability visit www.tegrand.us/ortronics or contact sales at 800-934-5432

NOTE: Product dimensions are listed by width, height and depth unless specified otherwise

DR-404045388



4 Point Vented **Equipment Shelf**

This four-point vented shelf can be used with the Mighty Mo" racks in all three channel depths. Shalf width is 17.5", Black.

Yented Equipment Shelf for Mighty Mo Racks



DESCRIPTION

19" x 5.75" x 20", 150 lbs capacity

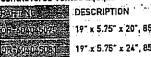
DR-404045075



Vented Equipment Shelves

Ortronics* vented equipment shelves keep active equipment cool. Can be mounted on standard 19" EIA racks. Shelf width is 17.5". Black.

Cantilevered Vented Equipment Shelves



19" x 5.75" x 20", 85 the enpacity 19" x 5.75" x 24", 85 lbs capacity

Standard Vented Equipment Shelf



DESCRIPTION 19" x 4" x 16", 50 lbs capacity

Vented Equipment Shelf, Fixed



DESCRIPTION

19" x 4" x 18", 35 lbs capacity

Vented Equipment Shelf, Slids-out



DESCRIPTION

19" x 4" x 18", 35 lbs capacity

CR-404045081



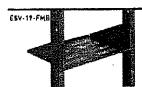
OR-404044466



QR-684644938



NOTE: Program purposes are tisted by with the ghi and depth indess specified otherwise



Front-Mount **Equipment Shelf**

- Cantilever shelf mounts in several positions
- 1/2*deap tray can be inverted. to create a flat surface for desp equipment
- Mounts to 3" or o" channel
- Choose between standard or vented version
- Mounting hardware included
- Made of 16-gauge steel.

Solid Version



DESCRIPTION

5.25TH ± 17.25TW x 14.00TD, rack spaces: 3, load rating: 50 lbs 5.25"H x 21.25"W x 14.00"D, rack spaces: 3, load rating: 50 lbs

Vented Version



DESCRIPTION

5.25 H x 17.25 W x 14.00 D, rack spaces: 3, load rating: 50 lbs 5,25"H x 21,25"W x 14,00"D,

rack spaces: 3, load rating: 50 lbs

Black finish

ES-19-MCSB



Multi-Configuration **Equipment Shelf**

- Mounts in at least 14 different ways
- Mounts on 3" or 6" channel equipment racks
- Brackets invert to meet mounting space requirements
- . Shelf can be inverted to create a 3/4" deep tray
- Mount two units back-to-back to form a double-sided shalf
- Mounting hardware included
- Made of 16-gauge steel

DESCRIPTION

5.25 H x 17.50 W x 12.00 D, rack spaces; 3, load rating: 50 lbs

Black (Inish.

Multi-Configuration Equipment Shelf Mounting Options



rack center



Shall front Nush to rack front



Shelf Iront 1-1/2" beyond rack frant



Two units form a





Brackets can be inverted to meet mounting space requirements



inverted to meet mounting space requirements



Shell can b inverted to make a 3/4 Deep tray

OR-40400523



Computer Tie Down Kit

Ortronics* CPU tie down kit includes mounting plates with rubber bumpers which can be quickly attached to the EIA pattern on the front and rear of any rack with a rail depth from 3" to 6.5". The hook and loop strap with elastic center safely holds the CPU in place against the rubber bumpers. The CPU can be easily removed for service. Black.



DESCRIPTION .

One hook and loop type strap, two brackets

NOTE: Includes #12-24 mounting hardware. Patent No. 6,598,270

NOTE: Product dimensions are listed by width, height and depth unless specified officerwise

CR-404044927

Wall Mount Shelf

Ortronics* wall mount shalf is designed for smaller systems applications, or where space is limited and a free standing rack cannot be used. Black.

DESCRIPTION

20" x 4.875" x 18", 120 lbs capacity

NOTE: Shalf has six keyholes in the rear for mounting. Mounting hardware not suctuded

DR-48460550



Folding Keyboard Shelf

This shelf has a keyboard tray which folds up and locks in place. The Iray holds all full standard keyboards up to 19 Wide, Black.



DESCRIPTION

19" rack mount, 1 rack unit

23" rack mount, Frack unit

40400404-R0



Rear Support Brackets

Rear support brackets allow the folding keyboard shelf to support any standard computer monitor up to 35 lbs. The brackets adjust from 6.25" to 17". Black.



DESCRIPTION

For folding keyboard shalf



Mouse Tray with Pad

The mouse tray slides underneath the keyboard tray when not in use. Black.



DESCRIPTION

For folding keyboard shelf 🗟 🛠

DR-XTR19-DR



Keyboard Tray

Features:

- Fits all standard keyboards and mounts to 19° equipment racks
- Mouse pad tray slides beneath the keyboard tray when not in use
- Mounting hardware is included
- Mouse pad can be mounted on left or
- Constructed of 16-gauge steet



DESCRIPTION

4,47"H x 20,38"W x 12,00"D,... load rating: 25 lbs

Black finish.

OR-KTF-19-DR



Fold-Up Keyboard Tray

- Fits all standard keyboards and mounts to 19" equipment racks
- Mouse pad tray slides beneath the keyboard tray when not in use
- Keyboard tray folds upward against uprights when not in use
- Mounting hardware is included
- Mouse pad can be mounted on left or right side
- Constructed of 16-gauge steel



DESCRIPTION

3.60°H x 20.38°W x 7.13°D, load rating: 25 lbs

Stack finish, Mouse pad tray adds 7.28" to the direction extended.



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NEW

DR-BFPT-18U-10



OR-8FPT-2RU-18



Tool Less Snap-in Filler Panels

Ortronics* tool less snap-in filler panels are used to fill open rack units In racks and cabinets where separation of cold air and hot air is required. They are designed to work with active equipment and Ortronics flat, angled or curved patch panels.

The tool less snap-in filler panels unique patent pending design allows them to snap into 19" EIA/ECA-310-E compliant tapped or square hole mounting rails. Because no field modification is required to fit a tapped hole, the panel can be remounted in a square hole in the future eliminating the need to stock two different types of panels. Black.

DESCRIPTION

19 W x 1,75 H, 1 rack unk, pack of 10 /19"W X 3.5"H, 2 rack units, pack of 18

08-401004789



OR-401004770



OR-BFPA-ZRU



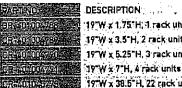
OR-MFPC-1RU



Blank Filler Panels

Ortronics blank filler panels fill in open spaces on all'standard 19" EIA racks and cabinets. They are composed of black powder coated aluminum and have a blue sitkscreaned logo, includes #12-24 mounting hardwara, Black,

Flat Blank Filler Panels



19"W x 1,75"H; 1 rack unit 19"W x 3.5"H, 2 mck units 19"W x 5.25"H, 3 rack units 19"W x 7"H, A rack units 19"W x 38.5"H, 22 rack units

Angled Blank Filler Panels

| PARTINGE, | į |
|--------------|---|
| OR BEFASIFUE | ž |
| OR/AFPA-2FI | ď |

DESCRIPTION

19"W x 1:75"H, 1 rack unit 19"W x 3.5"H, 2 rack unite

Curved Blank Filler Panels



DESCRIPTION 19"W x 1.75"H, 1 rack unit :

128

HINTE. Product denentions are ested by and the height and depth unless specified after ease

OR-494046108



Rack Adapter Kit

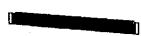
Ortronics* rack adapter kits allow 19" equipment to be used on 23" EIA racks, includes #12-24 mounting hardware, Black.



DESCRIPTION

19" to 23", 1.75"H, 1 rack unit 19" to 23", 3.5"H, 2 rack units 19" to 23", 5.25"H, 3 rack units 19" to 23", 7.0"H, 4 rack units 19" to 23", 8.75"H, 5 rack units

OR-60405383



19" Equipment Support Bracket

Mounts on the rear of any 19" rack to support the weight of heavy equipment. The bracket is especially effective on the Mighty Mo" racks where the channel depth is 6.5" or deeper. Includes #12-24 mounting hardware, Black.



DESCRIPTION

19"W x 1.75"H x 1"D

DR-50100051



19" Rack Mount Power Strips

The B outlet 20 AMP rack mount power strips are available with or without a switch, and with a standard 3 prong or twist-lock plug design. All four power strips come with 15° of cord. Includes #12-24 mounting hardware, Black.



DESCRIPTION

switch, twist-lock plug

19"W, 8 outlet, 20 AMP, circuit breaker, switch 19"W, 8 outlet, 20 AMP, circuit breaker,

19"W, 8 outlet, 20 AMP, circuit breaker

19"W, 8 outlet, 20 AMP, circuit breaker, twist-lock plug

QR-40400051



Power Strip for Mighty Mo® Racks and Free Standing Cabinets

The 16-position power strip mounts vertically on the back of the Mighty Mo racks and on the inside frame of the Mighty Mo cabinets. Includes mounting hardware.



DESCRIPTION

Vertical, 49", 16 outlet, 15 AMP, circuit breaker, switch, 15 cord Vertical, 49", 16 outlet, 20 AMP, circuit breaker, switch, 15 cord

129

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OR-40488013

Wire Distribution Spool

This spoot has a #12-24 stud molded in place and can be threaded into the EIA holes on any Ortronics* rack. Use it to mount cable management panels, patch panels or screw it in anywhere additional cable management is desired. Black.



DESCRIPTION

#12-24 stud

· Ł

OR-CHBFRORU



Cable Management Support Bar, Zero RU

Provides strain relief at the front or rear of a standard 19" patch panel that does not include rear management panels. The support bar is mounted with panel mounting screws to the front or with the supplied additional nuts to the rear, Black finish.



DESCRIPTION

17.00"W x 4.00"D

OR-48400044



Cable Management Support Bar

Provides strain relief at the rear of a standard 19" rack for horizontal wiring cables that are terminated to modular patch panels that do not include this type of cable management. Support bar is mounted with thumbscraws to the rear upright channels of a rack. Black,



DESCRIPTION

U-Type, 1.5°D, 19°W

L

DR-24-RR-WC



Earthquake Bracing Kit

Earthquake bracing kits secure installations against excessive damage from earthquakes, or simply add another measure of stability in areas not zoned. The kit is easy to install: Drill a 5/8" clearance hole in the top angle of your rack; attach brackets to both ends of a 5/8-11" threaded rod fordered separately; then brace the assembly to a beam, column or load-bearing wall.



DESCRIPTION

Kit contains: 4 brackats - 5/8 hote, 2 1/2-13 hex nuts, 2 1/2-13 x 1 bolt, 2 1/2* split lock washer

NOTE: Use Threaded rods on page 129

NOTE, Foregunt distancement one Distentity width, neight und denth unloss specified officewate

0R-4040000\$



Panel Mounting Screws

Ortronics* mounting screws replace lost or damaged screws for patch panels and cable management panals. These combination head screws with #12-24 threads have a pilot point for easy starting. Black.



DESCRIPTION

#12-24 x .625", package of 4

#12-24 x .625*, package of 50

OR-PS-1224CN

Cage Nuts

Features

- Adapts holes to meet specific server threads
- Available in 10-32, 12-24, and M6 metric applications
- # Fits all EIA rack uprights with aquare holes
- Heat treated with spring grip nut retainer for heavy-duty performance
- Packaged in quantities of 50
- Zinc plated
- · Steet construction



DESCRIPTION 0.50°H x 0.50°W x 0.38°D, thread size; 10-32 0.50°H x 0.50°W x 0.38°D, thread size; 12-24 0.50°H x 0.50°W x 0.38°D, thread size; M6 (metric)

OR-RU-1224CN



Rack Unit Cage Nuts

Ortronics Rack Unit Cage Nuts provide steel nuts in all three positions of a 1 3/4" rack unit with the installation of a single multiple nut.



DESCRIPTION

Thrend size: 12-24 package of 50

Thread size: M6 (metric) package of 50

OR-CA-93



Hardware

Ortronics offers a selection of hardware to support the specific needs of each installation. Order hardware with equipment racks and accessories to readily complete installations.



DESCRIPTION

Junction hardware, stx 3/8"x 3/4" bolts with nuts and washers

Concrete floor anchors; set of two 3/8" x 3" bolts, with nuts and washers

Wooden floor enchors; set of two 3/8" x 2" bolts, with washers

SOUS, Porolant consenues, sare hissed by water deophicans depth insess specified otherwise

Ortronics^e cable management straps and accessories provide an organized solution for the management of patch and horizontal distribution cables.

OR-70800205

Saddles



Ortronics self-adhesiva saddles will attach to any smooth dry surface and are designed to accept the hook and loop straps shown below. Sold in packages of 10. Black.



DESCRIPTION

Two-way, self-adhesive base, for cable management straps up to 1.25" maximum width



Color-Coded Cable Management Straps

Ortronics color-coded cable management straps provide an organized solution for the management of patch and horizontal distribution cables. The 3/4" W straps have a hook and loop type closure to secure and administer cables without damaging the construction of the copper or fiber cable. Sold in packages of ten.



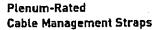
DESCRIPTION

6 Lx .75 W. grip range: ,625" to 1,625" diameter

12"L x'.75"W, grip range: 1.25" to 3.25" diameter

NOTE: To order colored straps, specify color by pulling color code at and of part number Color Code: -00=Black, -22=Red, -23=Orange, -24=Yellow, -25=Green, -26=Blue (Example: To order a 6" red OR-70700080 strap: OR-70700080-22).

08-70700143





Ortronics plenum cable management straps provide an organized solution for the management of cables in plenum rated air handling spaces. These 1/2" wide hook and loop type straps are reusable, easy to install and will not damage high performance cabling. Sold in 20 count rolls that are neat, convenient and quick to use. Cranberry.



DESCRIPTION.

8"L x .5"W. grip range: .75"-1.75" diameter

12"L x 6"W.

grip range: .75"+3" diameter.

OR-70700084-00



D-Ring Cable Management Straps

Ortronics D-Ring Cable Management Straps provide an organized solution for the management of horizontal distribution cables. The 3/4" W straps have a hook and loop type closure to secure and administer cables without damaging the construction of the copper or fiber cable. Sold in packages of ten. Black.



DESCRIPTION

grip range: 1.5" to 2.5" diameter

grip range; 2" to 4" diameter

OR-40400199

Bend Limiting Strain Relief Bar



Ortronics bend limiting strain relief bar has curved falls that prevent distribution cable from crimping and maintain proper bend radius. The panel mounts to the rear of standard 19" EIA racks. Route cable ties through the holes in the bar to hold cables in place.



DESCRIPTION

19" x 1" x 2.5", fills 1 rack unit

Clegrand Ortronics

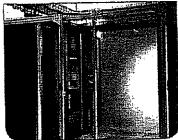
MIGHTY MO® AIR CONTROL

NOTE. Product dimensions are listed by width, height and depth unless specified otherwise

NEW

Mighty Mo Air Control Solutions

To improve data center cooling efficiency it is crucial to separate and contain cold air and provide warmer air back to the cooling units. Mighty Mo Air Control products significantly reduce cooling requirements by creating physical separation between the cold and hot air aisles. Mighty Mo Air Control products can be used to reduce the amount of cold air lost through unoccupied areas of equipment in hot and cold aisle environments, as well as balance the underfloor pressure and reduce air leakage.



MIGHTY MO AIR CONTROL

NEW

Mighty Mo Air Cap Retractable Aiste Cover

The Air Cap is a retractable cover that attaches to the top of the rack/cabinet and creates a barrier that prevents hot air and cold air from mixing. This retractable cover is spring loaded and designed to retract into a metal case should a fire suppression event occur. Thermal links melt at 135° and release the cover into the housing should temperatures go beyond a certain level. This ensures that the sprinkler pattern is not interrupted and also prevents the fire resistant cover from being exposed to the fire. The retractable feature also allows easy access when overhead maintenance is needed.

Mighty Mo Air Cap Retractable Aisle Cover





DESCRIPTION

Alt Cap, 60 W x 30 L

Alr Cap, 84"W x 30"L

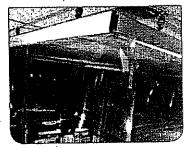
Contact customer service for lengths under 30 feet.

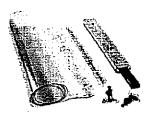
BOTTE Fraction communities are lessed by victim begins and digith unless specified otherwise

NEW

Mighty Mo Air Curtain System

The Mighty Mo Air Curtain is a containment system designed to separate hot and cold airflow. The fire resistant frosted vinyl hangs from aluminum tracks mounted to the drop ceiling grid above the top of the racks/cabinets and forms a barrier between the hot aiste and cold aiste. The aluminum tracks are connected to the ceiting grid by fusible links that release should temperatures go beyond a certain level. This ensures that the sprinkler pattern is not interrupted.





Hanging Vinyl Panels

Fire resistant vinyl panels hang from aluminum tracks mounted to the drop celling grid above the racks and cabinets. This curtain forms a barrier between the hot aiste and cold aiste. The aluminum tracks are connected to the ceiling grid by fusible links that release and drop to the floor when temperatures go above 135°, ensuring that the fire sprinkler pattern is not interrupted. Normal fire suppression systems engage at 158°.

The Hanging Vinyl Panel System is sold in kits that include all the necessary hangers, track and panels to cover your specific area. The vinyl panels are the length of the atuminum track and overlap at the track seams. Each panel has two inches of additional width on each end to overlap and create one continuous partition.

The tracks are available in clear anodized aluminum.

To determine the size of the Hanging Yinyl Panel System required you will need the following measurements:

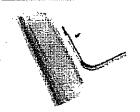
- Linear feet this is the length of aluminum track needed to create a rectangle around the alsle to be contained. Kits are available from 1' to 6' long and can be connected to one another for larger installations.
- Drop down langth (in inches) this is the langth of the vinyl panels from the aluminum track to the top of the racks and cabinets or floor. Available langths are from 29" to 182" high.



DESCRIPTION Vinyt Panel, 29"H x 12"L Vinyt Panet, 29"H x 24"L Vinyl Panel, 29"H x 36"L Vinyl Panel, 29"H x 48"L Vinyl Panel, 29"H x 60"L Vinyl Panel, 29"H x 72"L Vinyl Panel, 56"H x 12"L Vinyl Panel, 56"H x 24"L Vinyl Panel, 56"H x 36"L Vinyl Panel, 56"H x 48"L Vinyt Panel, 56"H x 60"L Vinyt Panel, 56"H x 72"L Vinyl Panel, 98"H x 12"L Viny! Panel, 98"H x 24"L . Vinyl Penal, 98°H x 48°L Yinyl Panel, 110"H x 12"L Vinyl Panel, 110"H x 24"La Vinyt Panel, 110"H x 48"L Vinyt Panel, 122"H x 12"L Vinyl Panal, 122"H x 24"L Vinyl Panel, 122"H x 48"L Vinyl Panel, 146"H x 12"L Vinyl Panel, 146"H x 24"L Vinyl Panel, 146"H x 48"L Vinyl Panel, 182"H x 12"L Vinyl Panel, 182"H x 24"L Vinyl Panel, 182"H x 48"L

NGRE. Product dimensions are cases by sodth, beight and depth unless specified otherense

NEW



Hanging Vinyl Corner Panels

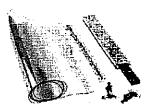
The Hanging Vinyt Corner Panels Include a curved track, panels and att the necessary hangers to make a 90 degree radius corner. The corner is 12 inches long in each direction.

| PARTING: |
|--|
| OR MMACNCP29X12 |
| OR MMACNCPSAX12 |
| OR MMACNCP98X12 |
| Street Control of the |
| OR MMACNEPI IOX12 |
| GREMMACNCP122X12 |
| OREMMACNOP145X12 |
| OR-MMACNCP182X12 |
| The state of the s |

DESCRIPTION

Vinyl Corner Panel, 29"H x 12"L Vinyl Corner Panel, 56"H x 12"L Vinyl Corner Panel, 98"H x 12"L Vinyl Corner Panel, 110"H x 12"L Vinyl Corner Panel, 122"H x 12"L

Vinyl Corner Panel, 146"H x 12"L Vinyl Corner Panel, 182"H x 12"L



Hanging Vinyl Strip Doors

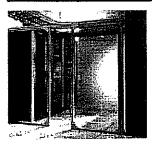
The Hanging Vinyl Strip Doors are designed as an economical solution for closing the end of an aisle. The track sections are available in 1 foot increments up to 6 feet. The 1 foot wide frosted vinyl strips have a 2 inch overlap on each side for a total width of 16 inches.

The Hanging Vinyl Strip Doors are sold in a variety of sizes to fit virtually every application.

| PART NO SERVICE THE C | DESCRIPTION |
|-----------------------|---------------------------|
| DREMMACNS98X12 | Vinyl Strip, 98"H x 12"L |
| OR MMACNS98XP4 | Vinyl Strip, 98"H x 24"L |
| REMMACNS PEXTAL | Vinyl Strip, 98"H x 36"L |
| OREMMACNESSEX48 | Vinyl Strip, 98"H x 48"L |
| OR MMACNS98X60 | Vinyl Strip, 98°H x 60°L |
| ORMMACNS 98X72 | Vinyl Strip, 98"H x 72"L |
| OR-MMACNS110X12 | Vinyt Strip, 110"H x 12"L |
| OBEMMACNETIOX2 | Vinyl Strip, 110"H x 24"L |
| DESMINACINE 1 DXDS | Vinyl Strip, 110"H x 36"L |
| OR-MMACN5110X48 | Vlnyi Strip, 110"H x 48"L |
| OR-MMACNS110X40 | Vinyl Strip, 110"H x 60"L |
| OR MMACNS 110X72 | Vinyl Strip, 110"H x 72"L |
| OR-VIMACNS 122X12 = | Vinyl Strip, 122"H x 12"L |
| CREMMACNS122X24 | Vinyl Stelp, 122 H x 24 L |
| OREMMACNS122X36 | Vinyl Strip, 122"H x 36"L |
| OF-MMACNS122348 | Vinyl Strip, 122"H x 48"L |
| OF MIMACNS 122X40- | Vinyl Strip, 122"H x 60"L |
| ORSMMACNS122X72 . | Vinyl Strip, 122 H x 72 L |
| OR-MMACNS146X12 | Vinyl Strip, 146"H x 12"L |
| DREMMACNS146X24 | Vinyl Strip, 146"H x 24"L |
| OREMMACNET 46X36 | Vinyl Strip, 146"H x 36"L |
| DEEMMACN5146X48 | Vinyl Strip, 146"H x 48"L |
| DREMIVACNS146X6D | Vinyl Strip, 146"H x 60"L |
| DRIMMACNSTA6X72. | Vjnyl Strip, 146"H x 72"L |
| OREMMACINS 182X12 | Vinyl Strip, 182"H x 12"L |
| ORSMMACNS 182X24 | Vinyl Strip, 182"H x 24"L |
| DREMMACN5182X36 | Vinyl Strip, 182"H x 36"L |
| OR-MMACNS187X48 | Vinyl Strip, 182"H x 48"L |
| DR-MMACYS182X60 | Vinyl Strip, 182"H x 60"L |
| OR-MMACNS182X72 | Vinyl Strip, 182 H x 72 L |
| | |

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NEW



Mighty Mo Stiding Aisle End Door

The Stiding Alsie End Door Instalts at the end of the row. The door frame is constructed of extruded aluminum and supports clear acrylic stiding doors, bridging an aiste up to 84" wide. The door is shipped futly assembled to make installation easier. Simply titt the door into place, bolt it to the floor and attach the turnbuckles on the top of the door to the top of the end rack or cabinet. The no-threshold design allows unfettered access to the contained aisle. The frames are available in clear or black enodized aluminum.



DESCRIPTION

Air Door, Stiding, 80°H x 89°W, dust 24°W doors, clear Air Door, Stiding, 80°H x 89°W, dust 24°W doors, black

Mighty Mo Hinged Aisle End Door

The Hinged Aiste End Door is also constructed of extruded aluminum and clear acrylic and has the same ease of installation as our stiding door.

The door can be purchased with a left hand or right hand opening and has a swing radius of 3 feet. The frames are available in clear or black anodized aluminum.



DESCRIPTION

Air Door, Hinged, 80"H x 56"W, left hand open, clear
Air Door, Hinged, 80"H x 56"W, left hand open, black,
Air Door, Hinged, 80"H x 56"W, right hand open, clear
Air Door, Hinged, 80"H x 56"W, right hand open, black

Mighty Mo Frame Panel

The Frame Panel is used to create containment when one row of racks or cabinets is not the same length as another row. It creates a right angle from the aiste end door to the rack or cabinet of the shorter row, affectively closing the row and preventing the mixing of hot and cold air. Each frame support is two feet wide to match the size of the standard floor tiles. The frames are available in clear or black anodized atuminum.

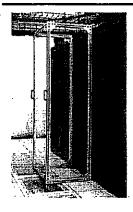


DESCRIPTION

Air Door, Frame Support, 80"H x 24"W, clear Air Door, Frame Support, 80"H x 24"W, black

NOTE Product dimensions are f-cles by width, height and depth unless specified otherwise.

NEW



Mighty Mo Air Booth

The Air Booth is a three sided containment system that is placed directly over a perforated tile, in front of a rack or cabinet. This isolates the cold air provided from the perforated tile, creating a dedicated supply targeted specifically for the intake of active equipment within individual racks or cabinets. By providing exclusive access to cold air, the Air Booth spot cools high density and high powered equipment. The Air Booth is an effective containment system for isolated racks and cabinets.

The frames are available in clear or black anodized aluminum.



DESCRIPTION
Air Booth, 3 sided,
80° H 3 24°W x 24°D, clear
Air Booth, 3 sided,
80° H x 24°W x 24°D, black
Air Booth, 3 sided,
80° H x 48°W x 24°D, clear
Air Booth, 3 sided,
80° H x 48°W x 24°D, black



Mighty Mo Air Plug

Air Ptugs are used to fill in cable openings in the raised floor or any gaps where airflow needs to be blocked. Air Ptugs are soft, compressible and safe to use around all types of cable, including fiber optic cable.

They are made from Sandet²⁴, a

They are made from Sandel^{FM}, a fireproof material. Sandel originates from sand, contains no asbestos and is non-combustible at any temperature. The Air Plugs are available in several sizes to cover most any opening and are easily installed by simply squeezing the plug and placing it in the opening to be filled. All plugs have a height of 5°.

| PARTENDERS |
|---------------------------------------|
| OR MEANING OF |
| OF-Alabatan) |
| Oray Wilder |
| DESTABLISHED STORY |
| 97:4MMA314:00W |
| ORDMYADION CONTRACTOR |
| O GOVANA STADILARS SEE |
| OR IMMAPADAYA |
| ORBANNELITA PER ORBANNARI PERO |
| ole Mystella s |
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| ing-typy yelliozer Grand von aller |
| elenaka deriken elenaka deriken |
| ORHYMAELYOV. |
| ORUMARL242A |

DESCRIPTION Air Plug, 5" x 4" x 4", black Air Plug, 5" x 6" x 6", black Alr Plug, 5" x 6" x 12", black Air Plug, 5" x 6" x 18", black Air Plug, 5" x 6" x 24", black Air Plug, 5" x 9" x 9", black Air Plug, 5" x 9" x 14", black Air Plug, 5" x 9" x 18", black Air Plug, 5" x 9" x 24", black Air Plug, 5" x 12", x 12", black Air Plug, 5" x 12" x 18", black Alc Plug, 5" x 12" x 24", black Air Plug, 5 x 14 x 14 , black Air Plug, 5" x 16" x 16", black Air Plug, 5" x 16" x 20", black Air Plug, 5" x 16" x 24", black Air Plug, 5" x 18" x 18", black Air Plug, 5" x 20" x 24", black 'Air Plug, 5" x 24" x 24", black

NOTE (Frodom) dimensions are listed by width, finight and depth orders specified otherwise

REW



Mighty Mo Air Disrupter

The Air Diarupter is a curtain designed to modify the air velocity under a raised floor. Low pressure areas above perforated tiles are often a result of air rushing past the tite opening at too great a speed. By strategically placing the Mighty Mo Air Disrupters under the raised floor, air velocity is greatly reduced and more air is allowed to permeate through the tites, ensuring a consistent supply of cool air to each rack or cabinet.

The Mighty Mo Air Disrupters are made from the fireproof material Sandel.



DESCRIPTION:
Alc Disrupter,
5TH x 24TW
Air Disrupter,
12TH x 24TW
Air Disrupter,
18TH x 24TW
Air Disrupter,
24TH x 24TW

NOTS, Product dimensions are insecibly width, height and dopth unless specified effectiving

NEW

OR-MMABP27RU



Mighty Mo Air Blanking Panel

Air Blanking panels are used to fill in open spaces on racks and cabinets, reducing the recycling of hot air into the cold aiste. Baps between the equipment allow the hot exhaust air to re-circulate back into the equipment air intake. This leads to improper cooling and can result in active equipment overheating. By using blanking panels to fill empty vertical spaces in the rack or cabinet, proper airflow is maintained.

The Mighty Mo Air Blanking Panel is a 27 rack unit modular sheet that is scored at one rack unit intervals. It can be sized by snapping off the number of rack units needed to cover your opening.



DESCRIPTION

27RU, Scored every 1RU, UL94-VO, black

OR-MMAGCT2448



Mighty Mo Air Grille

The Air Gritle is a ceiting vent that is installed above the hot aisle. This vent allows the hot exhaust air to pass into the plenum instand of recirculating throughout the equipment room.



DESCRIPTION Colling Yent,

Ceiling Vent Ceiling Vent 24" x 48", pk of 30

| legrand | Ortronics

MIGHTY MO® AIR CONTROL

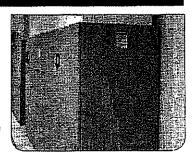
NDTE. Product dimensions are listed by width, height and depth unless specified otherwise

REW

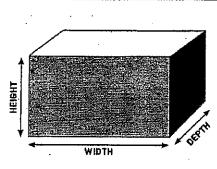
Mighty Mo CRAC Unit Return Air Extension

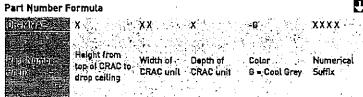
The CRAC Unit Air Extension mounts to the top of the CRAC unit and extends to the drop ceiling. The Air Extension then draws higher temperature return air from the ceiling, back to the CRAC unit, increasing cooling capacity and resulting in increased CRAC unit efficiency. The Air Extension can also be used in rooms without drop ceilings as well, acting as a snorkel to pull warmer air from above the CRAC unit to increase efficiency.

Mighty Mo Air Extensions are made of high grade aluminum and are manufactured to meet the individual requirements of your data center.



Mighty Mo Air Extensions are manufactured to meet the Individual requirements of your data center. To determine part number you will need the following measurements:





The height, width and depth are rounded to the nearest foot. The maximum height for an air extension is 8 feet. The width and depth are based on the rough dimensions of the CRAC unit.

The 4 digit numerical suffix will be assigned after the quantity and location of access doors and exact dimensions for your unit are determined.

Please contact your Legrand | Ortronics Representative or Technical Support to help configure your Mighty Mo Air Extension.

NOTE. Product dimensions are listed by width, height and depth unless specified otherwise.

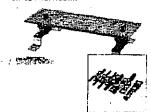
GR-884X12TMG8



GR-GB4X26TMGB



OR-684X12TM68KIT



OR-GRAXZOT MSBRIT



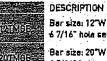
Telecommunications Main Ground Bars and Kits

Manufactured of 1/4" thick electrolytic tough pitch 110 alloy copper bar. Includes 1-1/2" insulators and 1" offset stainless steel mounting brackets. Includes one 1/2 az tube of antioxidant joint compound. Meets BICSI and EIA/TIA 607 standards.

Kits include:

- Copper ground bar with brackets and insulators
- 6 #6 compression lugs
- 3 #2 compression lugs
- 1 2/0 compression lug
- 1 4/0 compression lug
- 12 1/4"-20 x 3/4" SS hex head cap screw
- 12 1/4"-20 SS lock washer
- 12 1/4"-20 SS hex nut 6 - 3/8"-16 x 1" SS hex
- 6 + 3/8"-16 x 1" SS hea head cap screw
- 6 3/8"-16 55 lock washer
- 6 3/8"-14 55 hex nut

Telecommunications Main Ground Bars



Ber size: 12"W x 4"H, 12 5/16" hole sets, 6 7/16" hole sets

Bar size: 20°W x 4°H, 24 5/16° hole sets. 6 7/16° hole sets.

Telecommunications Main Ground Bar Kits



DESCRIPTION

Bar size: 12*W x 4*H, 12 5/16* hole sets, 6 7/16* hole sets

Bar size: 20"W x 4"H, 24 5/16" hole sets, 6 7/16" hole sets

NOTE for during precisions are listed by eachy frought and depth unless specified otherwise

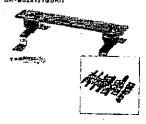
OR-GB2X16TGB



DR-GBZX12TGR



OR-GBZX12TGBKIT



Telecommunications Ground Bars and Kits

Manufactured of 1/4" thick electrolytic tough pitch 110 alloy copper bar. Includes 1-1/2" insulators and 1" offset stainless steel mounting brackets. Includes one 1/2 oz. tube of antioxidant joint compound. Meets BICSI and EIA/TIA 607 standards.

Kits Include:

- 1 Copper ground bar with brackets and insulators
- 6 #6 compression tugs 3 - #2 compression tugs
- 1 Z/O compression lug
- 1 4/0 compression lug
- 12 1/4"-20 x 3/4" SS hex
- head cap screw 12 - 1/4"-20 SS lock washer
- 12 1/4"-20 55 hex nut
- 5- 3/8"-16 x 1" \$5 hex
- head cap screw
- 6 3/8"-16 55 lock washer
- 6 3/8"-16 SS hex nut

Telecommunications Ground Bars



DESCRIPTION

Bar size: 10"W x 2"H, 4 5/16" hole sets, 3 7/16" hole sets

Bar size: 12"W x 2"H, 6 5/16" hole sets, 3 7/16" hole sets, 3 7/16"

Telecommunications Ground Bar Kits



DESCRIPTION

Bar size: 12"W x 2"H, 6 5/16" hole sets, 3 7/16" hole sets

0R-684X12J



Standard Ground Bars



DESCRIPTION

Bansize: 12"Wx 4"H, 27 holes Bansize: 20"Wx 4"H, 51 holes

OR-GBWMBKIT



Wall Mounting Bracket Kit



DESCRIPTION

Set of two brackets with insulators and hardware to mount to a ground bar.

NOTE. Product dimensions are listed by midth, neight and depth unless specified bihacklise



Equipment Rack Ground Bars and Kits

Manufactured of 1/4" thick electrolytic tough pitch 110 copper alloy bar. Accommodates one hote lugs or two hole lugs (5/8" on center), 36" bar has 2 PEM studs at one end and the 72" bar has 2 PEM studs at both ends for ground conductor connection.

Kits include:

- 1 1/4" thick electrolytic tough pitch 110 copper alloy bar
- 8 1/4" x 1/2" staintess steet hex head cap screw
- 3 white detrin insulators
 4 5/16" stainless steel lock washer
- B = 1/4" stainless steel lock washer
- 3 #12-24 x 5/8" hex washer head screw
- 4 ~ 5/16" stainless steel hex nut
- 1 two hole long barrel compression lug



DESCRIPTION

5/8" x 36" vertical ground bar

6/8" x 72" vertical ground bar

5/8" x 36" vertical ground bar kit

5/8" x 72" vertical ground bar kit





Kits Include:

- 1/4" thick electrolytic tough pitch 110 copper alloy bar
- 1 3" bar splice plate with 2 slotted holes
- 2 White delrin insulators
- 2 12-24 x 5/8" hex washer head screw
- 2 #12-24 x 3/4" copper flashed brass screw
- 2 #12 copper flat washer
- 8 #6-32 x 1/4" copper flashed brass screw
- 8 #6 ring terminal
- #6 long barrel compression lug, 3/4" o.c. for 1/4" hardware
- 2 1/4"-20 x 3/4" stainless steel cap screw
- 2 1/4" stainless steel lock washer
- 2 1/4"-20 stainless steel nut



DESCRIPTION

1" X 19.25" horizontal ground bar kit

For additional product availability visit www.legrand.us/ortronics or contact sales at 800-934-5432

☐ legrand Ortronics

BONDING & GROUNDING | RUNWAY & ACCESSORIES

NOTE: Poydoct amenancy mediatolary water begin and departments specified observable

OR-CL2LB6A OR-CL2LB4B

OR-CL2LB4C DR-CL2LB2A

OR-CLZLB2C OR-CL2L8 10C



OR-CL2LB200 GR-CL2LB36C



DR-CLZLB40C



DR-CTHD4666 OR-CTHD4444



GR-CTHD2222

conductors together with a hydraulic crimp tool. Sold in packages of 10.

Compression Taps

Connects two copper

C-Type

OR-CTHD220

GR-CTHD2248



Two Hole Long Barrel Compression Lugs

Manufactured from electroplated tinned copper. Long barrels maximize number of crimps and are color coded. Inspection port assures full conductor insertion. Sold in packages of 10.

| PATE PATE | CABLE SIZE | OC DIMENSION BETWEEN HOLES | SCREW SIZE | COLOR CODE |
|-----------------|---------------|-------------------------------|---------------|--------------|
| (altradevidado) | 6 | 625° | 1/4 | Blue |
| (वह स्वस्तिवार) | 8 | .75 | 3/8" | Blue |
| dragerasise: | 4 | 1 | 3/8" | Blue |
| OR/GE/HEPA | 2 | .625" | 1/4" | Brown |
| OR GEARENCE | 2 | | 3/8" | Brown |
| otselvine ote | 1/0 | 1* | 3/8* | Pink |
| oprobatezate | 2/0 | | 3/8* | Black |
| ORFGENERALD | 3/0 | | 3/8* | Orañga |
| वस वस्त्रमं आह | 4/0 | H. C. Spire | 3/8" | Purple |

CONDUCTOR RUN CONDUCTOR TAP

#4 Stranded #6 Stranded #6 Solid: #6 Solid #4 Stranded #4 Stranded #4 Solid #6 Soild #2 Stranded #4 Stranded #2,5olld #8 Solid #2 Stranded #2 Stranded #2 Solid #2 Solid 2/0 Stranded #2 Stranded 1/0 Solld #B Solid

For additional product availability visit www.tegrand.us/ortronics or contact sales at 800-934-5432

North Partiers demand in the contract of the partier and design collect engaged amorphism

OR-HCTALE



Mechanical Compression Tools

OR-MCTS



DESCRIPTION

Disless adjustable compression tool with steet handle. Works with copper conductor sizes #8 through 250MCM and aluminum conductors #8 through 4/0. For use with compression lugs and compression taps.

Terminates copper compression connectors In wire sizes #0 through 1/0: Dies included.

OR-BJEKIT



insulated Ground Jumper Kit



PARIHNO

el/Libra

DESCRIPTION

Ground jumper assembly kit, 6-76, 8" length

OR-COTLIGIA



OR-COTLANA

Copper Offset Terminal Lugs



DESCRIPTION

Wire range: max 10 str, min 14 str, bott hole size: #8, ampere rating: 25

Wire range: max 6 str, min 34 str, bold hole size: #8, ampare rating: 50

Wire range: max 2 str, min 8 str, bott hole size: 1/4", ampare rating: 70

DR-60400010



Grounding Kit for Racks

This kit provides a reliable systems ground for the distribution rack. One grounding kit is recommended for each rack.



DESCRIPTION

Single conductor ground lug for six AWO to

DR-GL2014



Two Hole Ground Lug

Allows grounding of racks and cabinets utilizing the standard EIA/TIA hote pattern.
Manufactured of electro-tin plated aluminum and allows attachment of copper or aluminum conductor sizes from 14AWG to 2/0. Meets BICSI and EIA/TIA 607 recommendations for two hote mounting. Includes two 3/8" x 1" hex socket head set screws.



DESCRIPTION'

Bolt hole size: 1/4" O.C. Spacing 5/8"

For additional product availability visit www.legrand.us/ortronics or contact sales at 800-934-5432

to a C. Contract or product of the design of the American straight of the contract of the Carlot Humbert



GR-PCU152

DR-PCU354



OR-PCU253

DR-PCUS6

Pipe Clamps

Manufactured from electroplated binned bronze. Conductor range: #6 through 250 MCM PEM stud ensures a flush mounting surface. Sold in packages of 5.



DESCRIPTION

Nominal pipe size range: .5" - .75", pipe outside diameter: .375" - 1"

Nominal pipe size range: 1" – 1,25", pipe outside diameter: .75" – 1,7"

Nominal pipe size range: 1.5" - 2", pipe outside diameter: 1" - 2.4"

Nominal pipe siza range: 2.5" - 3", pipe outside diameter: 2.25" - 3.5"

Nominal pipe siza ranga: 3.5" - 4", pipe outside diamater: 3.2" - 4.5"

Nominal pipe size range: 5" - 6", pipe outside diameter: 5.63" - 6.63".





Antioxidant Joint Compound

Oxide inhibiting joint compound used to improve electrical conductivity and enhance the integrity of the connection.





Aluminum Antioxidant

Synthetic base with suspended zinc particles. Material is gray in color. Recommended for aluminum to aluminum, atuminum to copper and aluminum conduit threads.



DESCRIPTION

1/2 oz., package of 12





Copper Antioxidant

Synthetic base compound with suspended copper particles. Material is copper in color. Recommended for copper to copper connections, copper threads and all ground applications.



DESCRIPTION

1/2 oz. package of 12

8 oz

HIGH. Her bush suprofessions are tissed by waith, bought and depth unless specified schemase

OR-TRI0-129

Tubular Runway



Flexibility is the key to cable management. Ortronics® Cable Runway is designed to adapt to each twist and turn cables must make. Made of lightweight rectangular steel tubing, the runway reduces floor loading and is easy to Instalt and maintain. Steel meets stringent specifications for yield and tensile strength, assuring a strong, light weight product that easily supports and delivers overhead cable.

Fastures

- # Tubular cross slats welded to the top of stringers
- Cross stats feature rounded edges for cable protection
- Runway widths available from 6" to 24"
- Two standard lengths: 5'11" or 9' 8 1/2"

Specifications

- Stringers made of 3/8" x 1-1/2" high tensite tubular steel
- Cross stats are 1" x 1/2" tubular steel
- # Rust-resistant dove gray, or black finish
- UL listed



OR-TRT10-6

Telco Style Tubular Runway

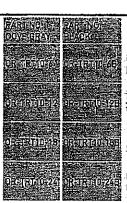


Features:

- Tubular cross slats are welded between stringers
- Cross stats feature rounded edges for cable protection
- Runway widths available from 6" to 24"
- Standard length is 9" x 8%"

Specifications:

- Stringers made of 3/8" x 1%" high tensile tubular steel
- Cross slats are 1" x 1/2" tubular steel
- Rust-resistant dove gray or black finish
- UL listed



DESCRIPTION

Dimensions: 4.00°W x 9' 8.50°L, load rating: 115 lbs

Dimensions: 12,00°W x 9' 8,50°L, toed rating: 115 lbs

Dimensions: 18.00"W x 9' 8.50"L, load rating: 115 lbs

Dimensions: 24,00°W x 9' 8,50°L, load rating: 115 lbs

MITE Product dimension are timed by violation height and depth unless specified atherwise

OR-TRTC-110



Curved Runway

Radius curved runway permits smooth vertical to horizontal transitions. Stringers are 1-1/2" x 3/8" steel tubes; cross slats are 1" x 1/2" x 1/8" steel tubes, UL listed.

Outside Curved Runway

PART NO. DESCRIPTION 08-TRTC-48 11.50"H x 6.00"W x 11.50"D R-IRTC-12D DR-THJC-12B 11.50"H x 12.00"W x 11.50"D OR TRIC 188, 11.50"H x 16.00"W x 11.50"D RETRITO-18D 11,50°H x:24.00°W x 11.50°D

Inside Curved Runway

| PART NO PART NO DOVE GRAY BLACK A | DESCRIPTION |
|-----------------------------------|-----------------------------|
| ORTRICE-6D ORTRICE-6B | .11.50°H x 6.00°W x 11.50°D |
| ORTRICE IZD OF TRICE 12B | 11.50°H x 12.00°W x 11.50°D |
| OR-TRTC-180 GR-TRTC-188 | 14.50"H x 18,00"W x 11,50"D |
| CRETRICE,240 DR. TRTCI-248 | 11.50°H x 24.00°W x 11.50°D |

OR-TRHR-128



DR-TATHR-128

Horizontal Radius Runway

Horizontal radius runway allows cables to be routed around horizontal corners. The horizontal radius runway features stringers made of 1-1/2" x 3/8" steet tubes; cross stats are 1" x 1/2" x 1/8" steel tubes. UL listed.



DESCRIPTION

12.00"W x 18.03"IR x 29.64"DR"

18.00"W x 18.03"IR x 35.66"OR*

TRC Style



DESCRIPTION

12.00"W x 18.03"IR x 29.66"OR*

OR-P413512H-TB



End Closing Tubes

End closing tubes are used when junctioning runway sections of different widths, or closing the stringers: of a single piece of runway. They are used together with corner, edge or straight clamps. Made of 3/8" x 1-1/2" tubular steel.

BLACK DR-P413511H-T R P&13512H-TD DH P&13512H T

DESCRIPTION

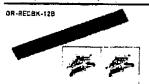
1.50°H x 5.75"W x 0.38°D, use with 6"

1.50"H x 11.75"W x 0.38"D, use with 12"

1.50°H x 17.75°W x 0.38°D, use:with 18"

1.50"H x 23.75"W x 0.38"D,

MOTE. Product dimensions are historical underly leagns and depth unless specified otherwise.



End Closing Kit

The end closing kit includes one end closing tube and two corner clamps for closing the stringers of a single piece of runway.



DESCRIPTION

For use with 6" curway For use with 12" runway For use with 18" runway For use with 24" runway

OR-WRIAT-128

Runway Wall to Rack Kit

The nurway wall to rack kit provides support for cable between the rack and the wall.

- (1) 12" wide 4" 5-1/2 long tubular runway with channels
- [1] 12" wide wall engle assembly
- = [1] Runway bracket kit
- [[1] Set of end caps

Features:

 Works with standard equipment racks of all channel depths and all Mighty Mo 3, Mighty Mo 6 and Mighty Mo 10 rack systems



DESCRIPTION

Kit of 1-4 5-1/2 long runway, I-wall angle assembly, 1-runway bracket kit and 1-set of and caps

OR-05-B

Ground Strap

Ground straps provide grounding between spliced runway. Simply pre-drill runway to accept the strap, and connect to runway sections using compression tugs.

Features:

- All compression lugs and 1/4-20" hardware included: (1) 8" ground strap, (2) compression lugs, (2) toothed lock washers, (2) hex nuts
- Constructed of flexible tinned copper flat braid



DESCRIPTION

Dimensions 8.75 L x 0.63 H

*Lug hole-to-lug hole length is 8,00". Runway clearance hole for 1/4-20" is needed to mount ground strap.

DR-P829127H

DR-P920147H



Straight & Corner Clamp Assemblies

Clamps are used to junction runway sections together in a variety of configurations. Whether sections are extended in-line or junctioned perpendicularly or are transitioned from horizontal to vertical, clamps provide a solid connection to assure the runway layout will provide the necessary support for your cabling.





DESCRIPTION

Straight clamp kit - 2 straight clamps

Straight clamp kit - For different stringer widths - 2 clamps with filter

Comer Clamp



DESCRIPTION

Comer clamp kit < 2 corner clamps

OR-P820127HA

Adjustable Angle Splice Kit

Adjustable angle splices junction runway sections from separate horizontal planes for smooth vertical transitions.



DESCRIPTION

Two adjustable angles

Clear zinc plated.



Edge Clamp Assemblies

Edge clamps junction runway of the same width where horizontal-to-vertical and horizontal-tohorizontal transitions are needed.

45° Edge Clamp



DESCRIPTION

45° edge clamp kit - 2 edge clamps

90° Edge Clamp



DESCRIPTION

90° edge clamp kit - 2 edge clamps

Clear zinc plated

08.CF-60



Cable Fence

Cable fence is available in 6" or 12" and provides added cable capacity for TR or TRT runway. One sat includes 10 pieces that attach to runway as needed. Legrand | Ortronics recommends placing cable fence to every other cross-member to support large cable piles.

For use with TR runway



DESCRIPTION

6.00°H x 2.63°W x 0.19°D

DR-CFTRC-4





DESCRIPTION

6.00"H x 0.75"W x 1.15"D

12.00"H x 0.75"W x 1.15"D

OR-P401750H-1D



Cable Runway Feet

Cable runway feet anchor runway to the wail or floor. Feet are attached to runway with clamps. Made of 3/8" x 1-1/2", steel bar. One foot included.



DESCRIPTION

6.00°H x 2.00°W x 1,50°D

Kit of two 6"H cable runway feet and 2 straight clamps

OR-P139240HD



Shelf Brackets

Shalf brackets attach to the wall and extend up to 24" for heavy duty runway support. Runway is secured to the bracket with J-bolts (included). Made of 3/16" x 1", steel bar. Hardware is zinc plated and dichromated.

DESCRIPTION

A 6.44", B 6.44" runway width: 6.00"

A 12.44", B 12.44", runway width: 12.00"

A 18,44", B 18,44", runway width: 18.00°

A 24.44", T 24.44", runway width: 24.00°

139740HD

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OR-P820527H



Cable Bracket

The Ortronics* steel cable bracket offers a separate channel for power cables that must not contact primary cables. Mounting hardware included, Mounts on 1-1/2" and 2" stringers.





DESCRIPTION

4.50"H x 5.00"D, 1.40 lbs

OR-TRPS-CM



Transition Pans

Assure the proper bend radius for cables delivered from overhead runway to equipment racks with our transition pan. Each pan clamps to runway cross members or runway stringers (TRP8-S). Truss head screws with protective covers assure cables aren't damaged. Provides 1,25" radius.



DESCRIPTION 2.00TH x 5.00TW x 4.13TD 2.00°H x 8.00°W x 4.13°D

2.00"H x/1L00"W x 4.13"D 2.00"H x 17.00"W x 4.13"D 2.00 H x 7.50 W x 4.63 D

Black finish. CM# pan mounts on runway cross member; S# pan mounts On runway stringer.

OR-P120040HB



Wall Angle Assemblies

Wall angle assemblies attach to the wall and provide a shelf or edge on which runway can be anchored using J-bolts. Anchoring can be either parallel or perpendicular to the wall. Includes 2" x 2" x 1/4" steel angle. two J-bolts, two 1/4-20" hex nuts. and two 1/4" lock washers. Hardware is zinc plated and dichromated.



DESCRIPTION

For runway width: 6.00

For runway width: 12,00°

For runway width: 18.00°

For runway width: 24,00"

OR-ACBK-6



Runway Ceiling Kit

Kit consists of:

- (1) Ceiling hanger bracket
- # [1] Closed clip
- # (1) 5/8-11 x & ft threaded rod
- # (4) 5/8-11 hex nuts



DESCRIPTION

The Runway Ceiling Kit is used to suspend cable runway from the celling.

OR-REK-2-3



Runway Elevation Kit

Used to provide additional space between the tops of racks or cabinets and the runway. Can be mounted to the runway junction plates, Mighty Mor runway support brackets or to the rear flange of a Mighty Mo rack. Can also be mounted to the Mighty Mo cabinets simply by drilling two holes into the cabinet's removable top plates. Black finish.



DESCRIPTION

For additional product availability visit www.legrand.us/ortronics or contact sales at 800-934-5432

□ legrand | Ortronics

BONDING & GROUNDING | RUNWAY & ACCESSORIES

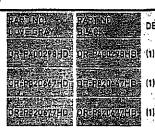
MOTE. Product denominous are listed by width, height and depth unless aper field otherwise

OR-P400218HD

Ceiling Hanger Brackets



When ceiting support is required, ceiting hanger brackets are used with 5/8-11" threaded rods and open or closed clips to suspend runway overhead.



DESCRIPTION

(1) Bracket

(1) Bracket; (2) nuts

(1) Bracket; (2) nuits; (1) plate*

* Plate color matches bracket

OR-2-E1-25C-A



Protective Rubber End Caps

Protective and caps conceal sharp runway adges that may harm the installation or injure those administering the installation. Sold in pairs,



DESCRIPTION

For 1-1/2" stringers

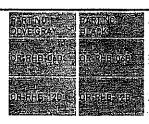
Black rubber,

OR-RHB-178





Use runway hanger brackets to suspend runway using a 5/8-11" threaded rod. A 12" cable path forms above the runway. Mounts without the threaded rod interfering with the cable path. Mounting hardware included.



DESCRIPTION

12,00°H x 6.38°W x 2.00°D, runway width: 6.00°

12.00 H x 12.98 W x 2.00 D, runway width: 12.00

OR-P484315H



Open Clips

Use open clips with 1-1/2" stringers to secure runway to threaded rods when suspending runway from the ceiting. Also use when stacking runway. Use with 5/8-11" threaded rod. Made of 3/16" x 1-1/2" steet bar. Ut. classified.



DESCRIPTION

[1] clip

Two sides - [2] clips; [4] nuts

Clear zinc plated

OR-P427503H



Closed Clips

Use closed clips with 1-1/2" stringers to secure runway to threeded rods when suspending runway from the ceiling. Also use when stacking runway. Use with 5/8-11" threaded rod. Made of 1/4" x 1-1/4" steet bar. Ut. classified.



DESCRIPTION

(1) dip

Two sides - [2] clips; [4] nuts

Clear zinc plated.

GR-F182078HD

Vertical Wall Bracket



Made of 1/8" x 2 steel, vertical wall brackets fasten runway to the wall and provide a secure route for cables to channel vertically. Usa 7/16" mounting hardware Inot included). One bracket included.



DESCRIPTION

1.50"H x 2:00"W x 2.53"D

NGH, Product dependent are lived to ordin hards and depot coles; conclude wherease

0R-P147(50H

Threaded Rods (5/8-11)

Threaded rods are available in a variety of lengths to support runway sections suspended from the ceiling, includes two 5/8-11" hex nuts and two 5/8" flat washers.



DESCRIPTION
Length of rod 5
Length of rod 6

Length of red 10'

Zinc plated and dichromated.

OR-2-E1-75

Threaded Rod Coupler

Features:

- Extend threaded rod length with
 spliced coupling
- # Yellow zinc dichromate finish
- Constructed of steel



DESCRIPTION

Join two,5/8" threaded rods together, kit contents: (1) 5/8" coupler, [2] 5/8" x 11" hex nut

OR-2-EZ-TAPC

Protective Sleeve

Slitted protective sleeves cover threaded rods to protect cables from damage. Field cut to desired size.



DESCRIPTION

10' PVC protective sleeve for 5/8-11" threaded rod

OR-P987527H



J-Bolt Assemblies

Each J-bolt assembly includes one 1/4-20" or 5/16-18" hex nut and one 1/4" or 5/16" lock washer. Ut. classified.



DESCRIPTION

A" 1.75, B" 0.250, C" 0.50, D" 0.75, thread size: 1/4-20

A* 3.25, B* 0.438, C* 0.75, D* 1.50, thread size 1/4-20

A 2.25, B 0.438, C 0.75, D 1.00, thread size: 1/4-20

A* 3.75, B* 0.313, C* 0.75, D* 1.25, thread size: 5/16-18

A. 3.25, B. 0.313, C. 0.75, D. 0.75, thread size: 5/16-18

A* 3.25, B* 0.438, C* 0.75, D* 1.50, thread size: 5/16-18

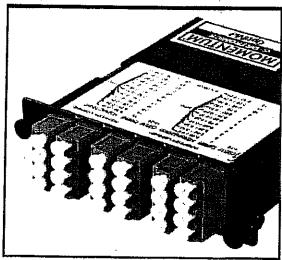
A" 2.25, B" 0.438, C" 0.75, D" 1.00, thread size: 5/16-18

Clear zinc plated.

153

HIGH PERFORMANCE STRUCTURED CABLING PRODUCTS & SOLUTIONS

OptiMo® Fiber Optic Solutions



Ideal for data center/SAN or enterprise LAN applications. OptiMo fiber optic solutions support common, convenient approaches to fiber optic cabling. Momentum® series modular optical cassettes provide a system that is simple to design, quick to install, highly reliable and error-proof. For a conventional field-installation as well as factory-terminated pigtaits for a splicing approach, we offer no-epoxy/no-polish and quick-cure anaerobic field-installable connectors. Also, for Secure Keyed LC fiber products, contact Legrand 1 Ortronics. For all your installations, OptiMo fiber solutions guarantee quality and performance.

FEATURED P R O D U C T S



Lagrand | Ortronics is a solution developer partner within the Cisco Developer Network Program.















FC Series Rack Mount Cabinets

_{P.}157



NEW
P.157
OptiMo® High
Density Rack
Mount Fiber
Cabinets



P.164 Pre-loaded Rack Mount Fiber Cabinets



P.148 615 Series Surface Mount Fiber Cabinets



P.172 Momentum 4 Modular Pre-Terminated Systems



P.172 Momentum 2 Modular Pre-Terminated Systems



P.173 High Density Adapter Panels



P.174 Adapter Panels



P.175 SpaceSaver Fiber Optic Cable Assemblies



P.177 Fiber Optic Cable Assemblies



P.180 Berk-Tek Pre-Terminated Backbone Cables



P.183 LumenTM Reusable Pre-Polished

Connectors

NEW



P.186 OptiMo Pre-Polished Connectors



P.192 OptiMo Field-Installable Anaerobic Connectors



P.194 Fib-or-Cop II



P.195 TracJack Modules and Faceplates



P.175 Series II Modules and Faceplates





Momentum Cassettes

P.170



Adapter Panels

P.173

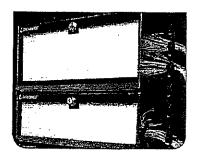


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OPTIMO® FIBER OPTIC SOLUTIONS

Legrand | Ortronics offers innovative fiber optic solutions to meet all your needs with greater density, simpler installation, easier administration and higher performance.

The Ortronics® range of rack mount fiber enclosures offers a comprehensive selection of products ideally suited to both large and small fiber installations. All fiber cabinets and related hardware are compatible with Mighty Mo® advanced cable management systems, so one system meets all cabling needs.



Choose the appropriate pre-terminated cassettes and adapter panels required for either the High Density system or for the standard density solution from the table below.

| ENCLOSURE | ТҮРЕ | CAPACITY | CASSETTE | ADAPTER PANEL |
|--------------------|----------------|------------------|--------------|----------------|
| E OR-FC01V-M | Patch & Splice | High Density | OR-M4 Series | OR-HDFP Series |
| OR-FG02U-M | Patch & Splice | High Density | OR-M4 Series | OR-HDFP Series |
| OR-FERRISM | Patch & Splice | High Density | OR-M4 Series | OR-HDFP Series |
| ☐ GR=FC04U=M= \$45 | Patch & Splice | High Density | OR-M4 Series | OR-HDFP Series |
| GR-F601U4C | Patch & Splice | Standard Density | OR-M2 Series | OR-OFP Saries |
| OR-FEO2ULC* | Patch & Splice | Standard Density | OR-M2 Series | OR-OFP Series |
| OR-FCD3ULG - 3/4 | Patch & Splice | Standard Density | OR-M2 Series | OR-OFP Series |
| OR-FC04U-C | Patch & Splice | Standard Density | OR-M2 Series | OR-OFP Series |
| OR-FC01U-PE | Patch | Standard Density | DR-M2 Series | OR-OFP Series |
| OR:FCD2U_P | Patch | Standard Density | OR-M2 Series | OR-OFP Series |
| OR:FCOQUERT: | Patch | Standard Density | OR-M2 Series | OR-OFP Series |
| OR-FC04U-P | Patch : | Standard Density | OR-M2 Series | OR-OFP Series |
| OR FCOIUS | Splice | Standard Density | N/A | N/A |
| DR-FC02U-S | Splice | Standard Density | NA . | N/A |
| OR-FC09V-S | Splice | Standard Density | NA | N/A |
| OREFCOAU-5 | Splice | Standard Density | N/A | N/A |

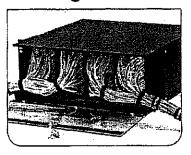
Clegrand Ortronics

ENCLOSURES

High Density

NEW

In today's data centers and SAN environments, space is often at a premium, making density more critical than ever. OptIMo® High Density (HD) solutions offer the same advanced performance and reflability that you've come to expect from Ortronics® standard density OptiMo products in a footprint designed for space-constrained installations. Using a comprehensive OptiMo HD solution of high density rack-mount fiber cabinets with either adapter panels or pre-terminated cassettes provides a complete liber cross connect patching solution for applications where maximum density is required.



OR-FC01U-M



OR-FC02U-M



GR-FC03U·M

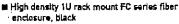




Optimo HD FC Series Rack-Mount Fiber Cabinets

OptiMo high density rack-mount fiber enclosures come complete with internal fiber management hardware and bend limiting ctips for superior fiber management. These enclosures are compatible with all Ortronics Mighty Mo* equipment racks and cabinets. They are only able to accept M4 cassettes and HDFP adapter panels. They are optimally designed for 48 fiber splice trays.

PART NO TO DESCRIPTION



■ Holds 4 high density HDFP series adapter panels or M4 high density cassettes

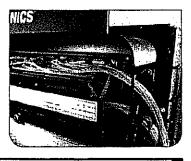
- m Holds two 48-F splice trays*
- Front locking door
- # Fiber tray slides to the front or the rear
- LC capacity: 96 fibers
- # 1.75" high; 1 rack unit, 15.65 lbs/7.10kg
- # Includes internal management clips
- # High density 2U rack mount FC series fiber anclosure, black
- Holds 8 high density HDFP series adapter panels or M4 high density cassettes
- Holds four 48-F splice trays*
- Front locking door
- in Fiber tray slides to the front or the rear
- I LC capacity: 192 fibers:
- 3.5" high, 2 rack units, 16.75 tbs/7.62g
- Includes bend limiting ctips and internal management clips
- # High density 3U rack mount FC series fiber enclosure, black
- Holds 12 high density HDFP series adapter panels or M4 high density cassettes
- # Holds seven 48-F splice trays*
- Front locking door
- Fiber tray slides to the front or the rear
- LC capacity: 288 fibers
- # 5.25" high, 3 rack units, 18.50 lbs/8.40kg
- Includes bend limiting clips and internal management clips
- High density 4U rack mount FC series fiber enclosure, black
- Holds 16 high density HDFP series adapter panels or M4 high density cassettes
- Holds ten 48-F splice trays*
- Front locking door
- Fiber tray slides to the front or the rear
- LC capacity: 384 fibers
- 7" high, 4 rack units, 20.65 lbs/9.36kg
- Includes bend limiting clips and internal management clips

Splice tray capacity exceeds the fiber port capacity of the enclosures

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ENCLOSURES

Patching



OR-FC01U-P



OR-FC02U-P



OR-FC03U-P



OR-FC04U-P



OptiMo® FC Series Fiber Patch Cabinets

Each fiber cabinat offers complete flexibility in terms of cable entry and exit, access to terminations from front and rear, and accommodates the unique needs of optical fiber bend radius limitation through enhanced patch cord management devices and novel internal fiber management components. These enclosures are only compatible with M2 cassettes and OFP adapter panels.

PART NO DESCRIPTION



■ Front locking door

I Fiber tray slides forward and backward

■ ST, SC, FC capacity: 36 fibers

■ MT-RJ, LC: 36 fibers

₩ LC quad: 72 fibers

■ 1.75"H, 1 rack unit, 15.65 lbs/7.10 kg

■ Includes internal management clips

■ Holds six adapter panels or Mementum cassettes

#Front locking door

Fiber tray slides forward and backward

ST, SC, FC capacity: 72 fibers

■ MT-RJ, LC: 72 fibers

■ LC quad: 144 fibers

■ 3,5"H, 2 rack units, 16,75 lbs/7,62 kg

■ Includes bend limiting clips and internal management clips

■ Holds nine adapter panels or Momentum cassettes

■ Front locking door

■ Fiber tray slides forward and backward

ST, SC, FC capacity: 108 fibers

■ MT-RJ, LC: 108 fibers

■ LC quad: 216 fibers

5.25"H, 3 rack units, 18.50 lbs/8.40 kg

■ Includes bend limiting clips and internal management clips

■ Holds twelve adapter panels or Momentum cassettes

Front locking door

Fiber tray alides forward and backward

ST, SC, FC capacity: 144 fibers

MMT-RJ, LC: 144 fibers

■ LC quad: 288 fibers

■ 7"H, 4 rack units, 20.65 lbs/9.36 kg

Includes bend limiting clips and internal management clips

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ENCLOSURES

Patching & Splicing





OR-FC02U-C back/front view



DR-FC03U-C back/front view



OR-FCOAU-C back/from view



OptiMo® FC Series Fiber Patch and Splice Cabinets

Each liber cabinet offers complete flexibility allowing the ability to patch and splice in the same cabinet. Each cabinet has optimized cable entry and exit points, allows access to terminations from front and rear, and accommodates the unique needs of optical fiber bend radius limitation through enhanced patch cord management devices and novel internal fiber management components. These enclosures are only compatible with M2 cassettes and OFP edapter panels.



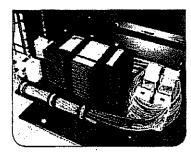
- M.Holds two (12 fiber) splice trays
- # Holds three adapter panels
- Front locking door
- ST, SC, FC capacity: 36 fibers
- MT-RJ, LC: 36 fibers
- LC quad: 72 fibers
- 1.75"H, 1 rack unit, 15.65 lbs/7.10 kg
- Includes internal management clips
- # Holds six (12 fiber) splice trays
- Front locking door
- .■ Holde six adapter panels 🌜
- ST, SC, FC capacity: 72 fibers
- MT-RJ, LC: 72 fibers
- LC quad: 144 fibers
- 3.5 H, 2 rack units, 16.75 lbs/7.62 kg
- Includes bend limiting clips and internal management clips
- Holds 11 (12 fiber) splice trays
- Front locking door
- # Holds nine adapter panels
- m ST, SC, FC capacity: 108 fibers
- MT-RJ, LC: 108 fibers
- LC quad: 216 fibers
- 5.25"H, 3 rack units, 18,50 lbs/8.40 kg
- # Includes band limiting clips Internal management clips
- # Holds 16 (12 fiber) splice trays
- Front locking door
- Holde 12 adapter panels
- m ST, SC, FC capacity: 144 fibers
- MT-RJ, LC: 144 fibers.
- LC quad: 288 fibers
- 7"H, 4 rack units, 20.65 lbs/9.36 kg
- Includes bend limiting clips and internal management clips

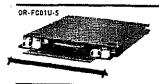
NOTE: Splice trays sold separately.

□ legrand | Ortronics

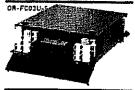
ENCLOSURES

Splicing





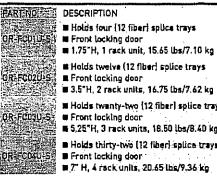






Fiber Splice Cabinets

Ortronics* splice cabinate provide interconnect or cross connect facilities between horizontal and backbone inside plant (ISP) or outside plant (OSP) cables. Each fiber cabinet offers high density splicing with internal fiber management accessories, has optimized cable entry and exit points, allows access to terminations from front and rear, and accommodates the unique needs of optical fiber bend radius limitation with novel internal fiber management components, includes internal fiber management clips.



- Holds four (12 fiber) splice trays
- 1.75"H, 1 rack unit, 15.65 lbs/7.10 kg
 - # Holds twelve (12 fiber) splice trays

 - # Holds twenty-two (12 fiber) splice trays

 - 5,25"H, 3 rack units, 18.50 lbs/8.40 kg
 - Holds thirty-two (12 fiber) splice trays

 - 7" H, 4 rack units, 20.65 lbs/9,36 kg

NOTE: Splice trays sold separately.

ENCLOSURES



D-Ring Cable Management Straps

Ortronics® D-ring cable management straps include a D-ring for easy adjustments. The straps have a hook and loop type closure to secure and administer cables without damage. Package of 12.



DESCRIPTION

Black, .75" W x 12"L

NOTE: For additional styles and colors, see page 132.

U

DR-FCBL-0G2



Fiber Cabinet Bend Limiting Clips

Helps maintain minimum bend radius and prevent micro bends on sharp edges of front and rear access points.



DESCRIPTION

Pack of 2

Ţ

OR-FCTL-001



Tray Lock Kit

The tray lock kit can be easily installed into any FC Series cabinet tray to prevent it from sliding forward or backwards.



DESCRIPTION

. Tray lock kit

OR-FC8R-001



OR-FCBR-002



OR-FCBR-GG



Cable Fastening Bracket

Provides robust backbone cable retention for FC cabinets when installing from above or below cabinet. Accommodates cable of all diameters; fastens using flexible and strong hook/loop straps.



DESCRIPTION

For use with 1 rack unit cabinet, top position

For use with 2, 3, and 4 rack unit cabinet, top position

For use with 2, 3, and 4 rack unit cabinet, bottom position

NOTE: Two hook and loop straps included.

□ legrand Ortronics

ENCLOSURES

OptiMo® FC Series

OR-70800158

Internal Fiber Management Clips



DESCRIPTION

Kit of eight clips









Splice Tray for Fusion Splices

Transparent stackable design with hinged cover and mylar insert. Ideal for VFL verification.



DESCRIPTION

Fusion splice tray for 12 splices

Eusion splice tray for 48 splices*

* OR-FST3-F048 requires the use of OR-20500307 splice steeves

DR-FST2-F048



- -



Splice Protection



DESCRIPTION

Heat shrink steeves, 40 mm, package of 50, 3.0 mm Heat shrink steeves, 40 mm, package of 50, 2.5 mm

OR-41500858

OR-20500043



OptiMo Breakout Kits

To be used with loose tube cables.

DESCRIPTION

Breakout kit, 12 fiber

Breakout kit, á fiber.

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ENCLOSURES

OptiMo® FC Series

OR-ECOLOGI



Enclosure Door Key Lock Kit PARTINO: LSE OR-ECOLOGIE

DESCRIPTION

Enclosure door key lock kit

IOTE: Also compatible with EC series

08-ECDT003

Enclosure Thumblatch Kit



DESCRIPTION

Enclosure thumblatch kit

NOTE: Also compatible with EC series



Enclosure Cable Management Kit



DESCRIPTION :

Enclosure cable management kit Pack of 2 bend limiting clips plus edgegoards

Diegrand Ortronics

ENCLOSURES

625 Series Pre-Loaded

· The Ortronics* range of pre-toaded rack mount fiber enclosures i625 Seriesi provides a comprehensive range ideally suited to both large and small installations. These enclosures are offered in 10 and 20 as a standard product. 625 Series fiber cabinet products are available with LC and SC adapters for single-mode or multimode applications.

- Pre-loaded with liber adapters for simple, quick installations
- Stide-out drawer provides easy access for quick, reliable fiber termination and fiber management
- Bend limiters included to support minimum bend radius requirements ensuring low loss transmission*
- Universal mounting [19" or 23"] for most rack types with standard EIA hole pattern
- Internal fiber management ring to provide proper bend radius and stack storage of excess fiber
- Termination access from front, top, and rear for internal fiber termination and management
- * 2U pre-loaded calimets only

Multimode, Face Recessed, 1 Rack Unit

DR-425MMC-12PF1RB







DESCRIPTION

12-LC duplex (24 fibers) multimode, beige adapters, phosphor-bronze alignment steeves 6-SC duplex (12 fibers) multimode, belge adapters, phosphor-bronza alignment sleeves 12-SC simplex [12 fibers] multimode, being adapters, phosphor-bronze alignment steeves 24-LC duptex |48 fibers) multimode, beige adapters, phosphor-bronze alignment sleeves 12-SC duplex (24 fibers) multimode, beige adapters, phosphor-bronze alignment sleeves 24-SC simplex (24 fibers) multimode, beige adapters, phosphor-bronze alignment sleeves

Multimode, 2 Rack Units







DESCRIPTION

48-LC duplax (96 fibers) multimode, beige adapters, phosphor-bronze alignment sleaves 24-SC duplex (48 fibers) multimode, belge adapters, phosphor-bronze alignment steeves

Single-mode, Face Recessed, 1 Rack Unit

DR-425MMC-12PE1RB



OR-425MMC-24PE1RB



OR-625MMC-24PE1RB

12-LC duplex (24 fibers) single-mode, blue adapters, caramic alignment sleeves 6-SC duplex (12 fibers) single-mode, blue adapters, ceramic alignment steeves 24-LC duplex (48 fibers) single-mode, blue adapters, caramic alignment sleeves 12-SC duptex (24 fibers) single-mode, blue adapters, ceramic alignment sieeves 24-SC simplex (24 fibers) single-mode, blue adapters, ceramic alignment sleeves

Single-mode, 2 Rack Units





DESCRIPTION

48-LC duplex (96 fibers) single-mode, blue adapters, ceramic alignment steeves 24-SC duplex (48 fibers) single-mode, blue adapters, ceramic alignment steeves 48-50 simplex (48 fibers) single-mode, blue adapters, caramic alignment sleeves

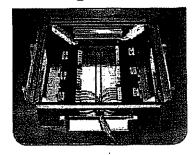


For additional product availability visit www.legrand.us/ortronics or contact sales at 800-934-5432

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ENCLOSURES

NOTE: Raised floor boxes are evaluable through Lagrand/Wiremold.

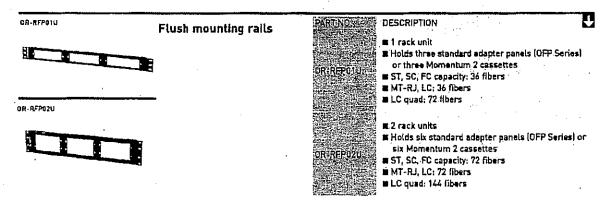


Ortronics® OptiMo raised floor patch panel allows data center managers and designers to take advantage of under-utilized installation space beneath the raised floor structure, providing greater flexibility in structured cabling design and maximizing usage of premium data center floor space.

Specifically designed to be installed in raised floor enclosures that are part of the cabling pathways, the OptiMo raised floor fiber patch panels address the special bend radius and depth requirements of fiber optic cabling systems.

| Features | Benefits |
|---|---|
| ■ Fiber patch panel for underfloor installation | Allows data center manager to take advantage of under-utilized space beneath raised floor |
| ■ 19" wide, 1 unit or 2 unit high models available | ■ Provides the flexibility to suit any installation |
| Designed for installation within 2' x 2' underfloor box with angled mounting rails | ■ Horizontal patch panel orientation |
| ■ Removable/reusable labeling cards | Convenient and accurate cabling administration and record keeping that is easily removed to provide rear patching access |

PAR NO. PAR

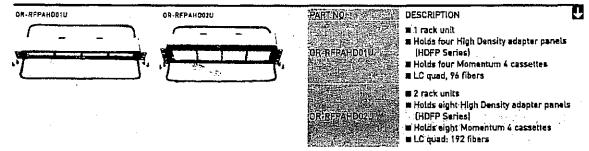


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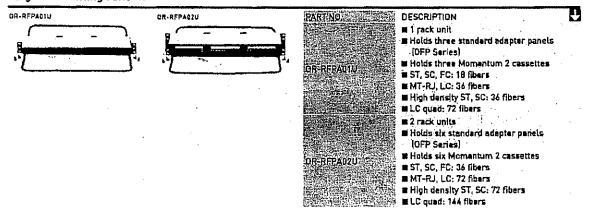
ENCLOSURES

NEW

High Density angled mounting rails 45°



Angled mounting rails 45°

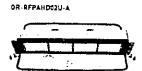


ENCLOSURES

NEW

High Density angled mounting rails 56°- 60°

OR-REPAHDOLU-A





DESCRIPTION

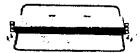
■ 1 rack unit

- Holds four High Density adapter panels
 (HDFP Series)
- # Holds four Momentum 4 cassettes
- LC quad, 96 fibers
- 2 rack units
- Holds eight High Density adapter panels
 (HDFP Series)
- # Halds eight Nomentum 4 cassettes
- LC quad: 192 fibers

NOTE: Please contact raised floor enclosure manufacturer to verify rait angle. NOTE: May require stand-off bracket kit when using Momentum cassettes

Angled mounting rails 56°- 60°

OR-REPAGILI-A







DESCRIPTION all rack unit

- B Holds three standard adapter panels [OFP Series]
- # Holds three Momentum 2 cassettes
- ST, SC, FC: 18 fibers
- MT-RJ, LC: 36 fibers
- High density ST, SC: 36 fibers
- LC quad: 72 fibers
- 2 rack units
- Holds six standard scienter panels (OFP Series)
- Holds six Momentum 2 cassettes
- ST, SC, FC: 36 fibers
- # MT-RJ, LC: 72 fibers
- # High density ST, SC: 72 fibers
- LC quad: 144 fibers

NOTE: Ptezse contact raised floor enclosure manufacturer to verily rail angle. NOTE: May require stand-off bracket kit when using Momentum cassettes





Angled Stand-off Bracket Kit

Kit used with raised floor enclosure with 56°-60° mounting rails. These stand-off brackets may be needed to extend the mounting surface of the raised floor enclosure to accommodate the depth limitations of some 2' x 2' raised floor enclosures. Includes left and right bracket.



DESCRIPTION

Kit used with raised floor enclosure

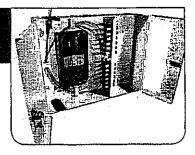
Dlegrand Ortronics

ENCLOSURES

Ortronics® 615 Series surface mount fiber cabinets secure, protect, and organize up to 384 single-mode or multimode optical terminations.

- Standard OFP Series adapter panels snap in for easy installation, removal, and expansion
- Surface/wall mountable is ideal for space limited installations
- Top/bottom cable entry simplifies installations, moves, adds, and changes
- Internal cable management included—facilitates organization and clean installations
- Open designs with available latch are economical and easity accessible.

NOTE: Contact Legrand | Ortronics sales for cassette compatibility

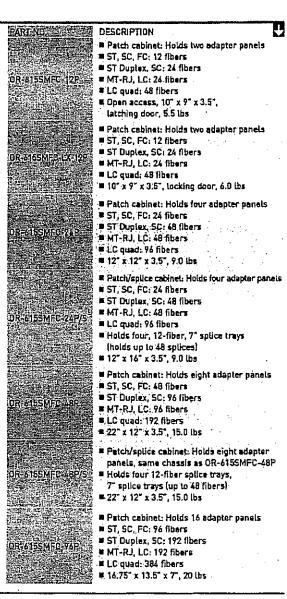


615 Series Surface Mount Fiber Cabinets

OR-4135MFC-12P OR-4135MFC-24P/S OR-6135MFC-48P OR-6135MFC-48P/5







ENCLOSURES



Splice Protection



DESCRIPTION

Ξŧ

'Heat shrink steeves, 40 mm, package of 50, 3.0 mm

OR-62600802



7" Splice Trays



DESCRIPTION
Mechanical, 12 fibers*

U

U

Fusion, 12 fibers*

For use with surface mount cabinet only.

DR-62600000



OR-41508#\$#



OptiMo Breakout Kits

To be used with loose , tube cables,

PART NO. OR: 61500858 OR: 61500868

DESCRIPTION

Breakout kit, 12 fiber

Breakoul kit, 6 fiber

[legrand | Ortronics

CASSETTES

Ideal for data centers and SANs, the Momentum^e series is a modular, pre-terminated cabling system that integrates optical cassettes with advanced fiber cable in the backbone. It's simple to use, fast to install, and the connectors are factory terminated and tested. The cassettes are supported by a range of rack-mount and underfloor patch panels for convenient installation.

it's the System That Counts

The performance of a fiber optic cabling system needs to be viewed from a system standpoint and not just as an assembly of individual components.

The optical loss performance of a modular cassette-based MTP*/MPO link is primarily affected by connector end-face polishing and connector end preparation at the factory. Therefore, it is essential that the MTP/MPO backbone cables and patch cords are prepared with a high-quality process that complements the cassette manufacturing process, otherwise, the expected end-to-end link insertion loss performance will not be realized.

Simply put, to achieve improved performance you need high or premium cassettes with matching backbone and patch cables.

In addition, the low DMD Gigalite 10-XB (DM4+) glass fiber used in all Ortronics 50 micron Laser Optimized Multimode Fiber (LOMF) cassettes allows the ISI (Inter-symbol interference) penalty to be reallocated to the channel budgeter. When used with the corresponding Gigalite 10-XB backbone MTP/MPO cables and patch cords, the system designer can realize a significant link loss budget improvement that may be used for additional splices, connections or extended distances runs.

^{*} MTP is a registered trademerk of US Conec

^{**} See the NetClear website: www.netclear-channet.com/nc/solutions/dc-sen/fiber-tech

CASSETTES



| Patch Cords | Momentum Pre- Terminated Cassette | MTP to MTP Backbone cable | Momentum Pre- Terminated Cassette | Patch Cords |
|---|--|---|--|---|
| PREMIUM PERFOR | RMANCE SYSTEM | | | |
| Patch Cords/Pigtalls .0.15 dB max | Cassettes 0.50 dB max | Berk-Tek MTP-MTP Backbone Cables 0.35 dB max | Cassettes 0,50 dB max | Patch Cords/Pigtails 0.15 dB max |
| P3 Series | M4LC024-50EA3A1 M2LC024-50E3A1 | 12F loosa tube MOP or Adventum, MTP 0.35 dB Loss | M4LCQ24-50EAJA1 M2LCQ24-50EJA1 | P3 Series |
| HIGH PERFORMAN | ICE SYSTEM | | | |
| Patch Cords/Pigtalis 0.15 dB max | Cassettes 0.75 dB max | Berk-Tek MTP-MTP Beckbone Cables 0.50 dB max | Cessettes 0.75 dB max | Patch Cords/Pigtalis 0.15 dB max |
| P3 Series | M4LCQ24-50E M2LCQ24-50E | 12F loose tube MDP or Adventum, MTP 0.50 dB Loss | M4LC024-50E M2LC024-50E | P3 Series 0.15 dB Loss |
| STANDARD PERFO | RMANCE SYSTEM | | | |
| Patch Cords/Pigtalls | Cassettes 1.25 dB max | Berk-Tek MTP-MTP Backbone Cables 0.75 dB max | Cassettes 1.25 dB max | Patch Cords/Pigtalls |
| P1 Series 0.50 d8 max MM 0.30 d8 max SM | M4LCQ24-50E M2LCQ24-50E M2LCD12-50E M2SCD12-50E also available in single-mode and 62.5 | 12F-72F loose tube MDP or Adventum, MTP Standard Loss | M4LC024-50E M2LC024-50E M2LC012-50E M2SC012-50E also available in single-mode and 62,5 | P1 Series 0.50 dB max MM 0.30 dB max SM |

□ legrand | Ortronics

CASSETTES

NEW

OR-MALCOZA-SOEASA1



OR-MALCOZA-09



OR-MALCOZA-42



Momentum 4 Cassettes

Momentum 4 modular fiber optic pre-terminated cassettes combine the plug-and-play functionality of our standard cassette with the high density footprint accommodating 96 fibers in one rack unit.

The Momentum 4 High Density Cassette fully supports the latest networking standards through 10 Gb/s and beyond. It is available in three performance levels for Laser Optimized Multimode 50 micron fiber. Each cassette has a data label with insertion loss value for each port.

- Premium Performance cassette/ mated pair insertion loss: 0.50dB
- High Performance cassettes/mated pair insertion loss: 0,75dB
- Standard Performance cassetts/ mated pair insertion loss: 1.25dB
- 1.05dB total Insertion loss for Single-mode system.
- Insertion loss value for each port printed on adhesive data label

PARLINO:

OR-M4L9024-50EA8A

OR-M4L8024-50E

OR-M4L8024-50E

DESCRIPTION

LC Quad, 24 fiber, 50-micron LOMF*, 2 MTP**[M], premium performance, single unit

LC Quad, 24 fiber, 50-micron LOMF*, 2 MTP[M], high performance, single unit

LC Quad, 24 fiber, single-mode, 2 MTP(M), high performance, single unit

LC Quad, 24 fiber, 62.5-micron multimode, 2 MTP(N), high performance, single unit

Effective model bandwidth 4900 MHz-km Ø 850nm

** MTP is a registered trademark of US Conec.

CASSETTES

OR-M2LCQ24-56E



OR-MELCOJE-SOE



OR-M2LC012-09



Momentum 2 Cassettes

Momentum 2 modular fiber optic pre-terminated cassettes provide the fastest method of structured cabling deployment: plug it in and you're ready to go. Factory-terminated/tested cassettes guarantee field performance.

Full support of today's most rigorous transmission technologies up through 10 Gb/s.

- 1.05 dB total insertion loss for single-mode
- Single unit footprint for space savings in patch panels and cabinets.
- Data label printed with insertion loss value for each port adhered to the cassette housing.



DESCRIPTION

LC Quad, 24 fiber, 50-micron LOMF*, 2 MTP(M), premium performance, single unit

LC Quad, 24 fiber, 50-micron LOMF*, 2 MTPIMI, high performance, single unit

LC Quad, 24 fiber, single-mode, 2 MTPIMI, high performance, single unit

LC Duplex, 12 fiber, 60-micron LOMF*, 2 MTP[M], high performance, single unit

LC Duplex, 12 fiber, single-mode, 2 MTP[M], high performance, single unit

SC Duplex, 12 fiber, 50-micron LOMF*, 2 MTP(M), high performance, single-unit

SC Duplex, 12 fiber, single-mode, 2 MTP(M), high performance, single unit

*Effective Modal Bandwidth: 4700 MHz-km & 850nm NOTE: Other cassette fiber types are available. Contact Legrand | Ortronics sales.

ADAPTER PANELS

The Ortronics® OptiMo® OFP and HDFP series adapter panels are used with our popular FC Series modular fiber cabinets, offering great flexibility in structured cabling design. Front-removable adapter panels are available with LC, SC, ST, and MT-RJ adapters and feature options ideal for both single-mode and multimode applications. They are held securely in place with plunger/grommet fasteners.

Where applicable, the adapters used (LC, SC, and ST) contain application specific alignment sleeves to ensure optimal performance in conjunction with the economic constraints of network design.

For common multimode applications, phosphor-bronze (metal) alignment sleeves are used. With the increasing demands of high bandwidth multimode systems, like those containing laser-optimized multimode fiber, ceramic alignment sleeves are recommended. Finally, to ensure dependable transmission, ceramic sleeves are always used in single-mode applications.

NEW

High Density Adapter Panels

OR-HOFF-MPA72LA OR-HDFP-MPA72CA DR-HDFP-MPA72MA PARTING LESSES DESCRIPTION HD, 6-MPO adapter panel, feed-through, multi-OR-HOFP-MPA72LA mode, equa adapters, Type A* HD, 6-MPO adapter panel, feed-through, single-OR-HOFE-MPA72CA mode, green adapters, Type A* OR-HDFP-LCGZ4LC HD, 6-MPO adapter panel, feed-through, multi-OR-HDFP-LCG24AC GR-HDFP-LCG26MB HDFP=MRA72MA mode, beige adapters, Type A* HD, 6-LC Quad I24 fiber; adapter panel, multimode, eque adapters, ceramic alignment sleeves HD, 6-LC Quad (24 fiber) adapter panel, single-HOFF-CCO24AD mode, blue adapters, ceramic alignment sleeves OR-HOFP-BLANK HD, 6-LC Quad (24 fiber) adapter panel, R-HOFP-LEQUAME multimode, beige adapters, phosphor-bronze alignment sleeves DR-HDEP-BLANK HD, Blank Panet, black

| Adapter Pane | ls | • | *Type A MPO adapters are Key Up/Key Down |
|----------------|----------------|--|---|
| OR-OFP-MPATELA | DR-OFP-MPATACA | OR-OFP-MPA94NA | PART NO DESCRIPTION |
| NOW THE REAL | Deerseen | Deserved to the second | OR OFF MPA26LA 8-MPO adapter panet, feed-through, multimode, aqua adapters, Type A* |
| | | | OR-OFF-MPAYSCA B-MPO adapter panel, feed-through, single-mode, green adapters, Type A* |
| OR-OFP-MPA72LA | OR-OFP-MPA72CA | OR-OFP-MPA72MA | OR-GFEMPASMA belge adapters, Type A* |
| Dig Barre | | Of the second | OP OFF MPA771 4 6-MPO adapter panel, feed-through, multimode, |
| -44.6 | 10011 | Constant of | OR-DEP MPA77CA: 6-MPO adapter panel, feed-through, single-mode, green edapters, Type A* |
| 08-0FP-LC034LC | OR-OFP-LC024AC | OR-OFP-LC024M8 | OR-OFFIMAY 2MA beige adapters, Type A* |
| | | Pire trees | ORCORP-LODZ4(D) 6-LC Quad (24 fiber) adapter panel, multimode, |
| Popoli . | white times | | OP-OFF-ICO2AAC - o-CC Quad [24 fiber] adapter panel, single-mode, blue adapters, ceramic alignment sleaves |
| DB-GFP-LCD1ZLC | OR-OFP-LCD12AC | OR-OFP-LCD12MB | OR-OFF-LC024ME o-LC Quad (24 fiber) adapter panel, multimode, beige adapters, phosphor-bronze alignment sleeves |
| | P. Person | 2 2 Diller | On ore LDD 21C adva adapter adapter panal, multimode, |
| | | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | OR-DEP-LODIZAC 6-LC Duplex (12 fiber) adapter panel, single- mode, blue adapters, ceramic alignment sleaves |
| | • | | OR-OFF-LCD12MB 6-LC Duplax (12 fiber) adapter panel, multimode, beige adapters, phosphor-bronze alignment sleaves |
| | | | *Type A MPO adapters are Key Up/Key Down |

□ legrand° | Ortronics

ADAPTER PANELS

OR-DFP-SCD04M8 GR-OFF-SCOBIAC GR-OFP-SCDOALC OR-OFP-SCOORME OR-OFP-SCOORAC DR-OFP-SCDOOLC DR-OFP-SCD12MB DR-DFP-SCD1ZAC OR-OFP-SCO12LC OR-OFP-SESOAMB OR-OFF-SCSOLAC OR-OFF-SCSOALD DR-OFP-MTD12MA OR-OFP-MTD12AA OR-OFF-MTD12LA 303000 OR-OFP-STSOLNS OR-OFP-STEGENE OR-OFP-STDORMS OR-OFP-STDOBAC DR-OFP-STDORLC OR-OFP-STO12MB OR-OFF-STD12AC OR-OFP-STD12LC OR-OFP-BLANK

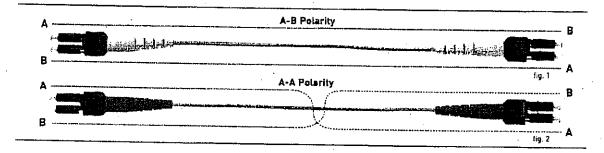
| BART NO. | DESCRIPTION |
|--|--|
| OR-OFF-SCDOME | 3-SC duplex [6 fibers] multimode, beige |
| | analytes of humahites or ourse and integer stances. |
| OR-DFP-SCD04AG | 3-SC duptex (6 fibers) single-mode, blue |
| | adapters, ceramic alignment sleeves* 3-SC duplex (6 fibers) multimode, |
| OR-OFF-SCDOALC | aqua adapters, ceramic alignment steeyes* |
| | L-SC dunlay (9 Share) multimade, balan |
| OR OFP-SCIDOBMB | adapters, phosphor-bronze alignment sleeves |
| OR-OFP-SCDQBAC | 4-SC duplex (8 fibers) single-mode, blue |
| Sur-of-Scoom | adapters, ceramic alignment steeves |
| OR-DEP-SCDOBLC | 4-SC duplex (8 fibers) multimode, |
| | aqua adapters, ceremic alignment sleeves |
| DR-OFP-SCD12MB | 6-SC duplex (12 fibers) multimode, beige |
| | - adapters, phosphor-bronze alignment sleeves |
| DR-DFP-SCD12AC | 6-SC duplex (12 fibers) single-mode, blue adapters, ceramic alignment sleeves |
| | 6-SC duplex (12 fibers) multimode. |
| OR-OFP-SCD12LC | aqua adapters, ceramic alignment sleeves |
| OR-OFF-SCSO6MB | -6-SC simplex (6 fibers) multimode, beige |
| DISPLICATION OF THE PROPERTY O | adapters, phosphor-bronze alignment sleeves. |
| OR-OFP-50S08AC | 6-SC simplex (6 fibers) single-mode, blue |
| | adapters, ceramic alignment sleeves |
| DR-OFP-SCSOALC | 6-SC simplex (6 fibers) multimode, |
| Market in the second | , aqua adapters, ceramic alignment sleeves |
| OR-OFP-MTD12MA | 6-MT-RJ duplex [12 fibers] multimods, beige adapters |
| | 6-MT-RJ duplex (12 fibers) single-mode, |
| OR-OFP-MTD12AA | blue adapters |
| OD OCH LITHIALA | 6-MT-RJ duplex (12 fibers) multimade, |
| OR-OFP MID12LA | aqua adapters |
| | -6-ST simplex (6 fibers) multimode adapters, |
| OR DEE-STSOAND. | phosphor-bronze alignment sleaves, |
| Market Company | metal adapters |
| OR-OFP-STSDANC | 6-ST simplex (6 fibers) single-mode, ceramic alignment sleeves, metal adapters |
| 数数となった。 | 4-ST duplex (8 fibers) multimode adapters, |
| DR OFR-STDORMS | phosphor-bronze alignment sleeves, |
| | beige adapters |
| OR-OFP-STOOBAC | 4-ST duplex (8 fibers) single-mode adapters, |
| | _ceramic alignment steeves, blue adapters |
| OR-OFP-STD08LC | 4-ST duplex 18 fibers) multimode adapters, |
| SOURCE PROPERTY. | ceramic alignment sleeves, aqua edapters |
| RP DED ETDIAND | 6-ST duplex [12 fibers] multimode adapters. |
| DR-OFP-STD12MB | phosphor-bronza alignment slaeves, beige adapters |
| WEST AND THE STATE OF | 6-ST duplex (12 fibers) single-mode adapters, |
| OR-DFP-STD12AC | ceramic alignment sleeves, blue adapters |
| OB OCD CTO 2 | 6-ST duplex (12 fibers) multimode adapters, |
| OR-OFP-STD12LC | ceremic atignment steeve, aqua adapters |
| DROFF-BLANK | Blank panel, black |
| 阿斯斯特尼亚山斯特 | |

^{*} Designation strip lot provided for accurate port identification

PATCH CORDS

Ideal for Data Center Applications

The SpaceSaver line of duplex fiber optic patch cords feature a single 2.4 mm round jacketed cable. These patch cords are available with duplex LC connectors at each end in either A-B or A-A types per the TIA 568 standard. These patch cords are ideal for high density installations common in data centers and SANs optimizing the available vertical and horizontal cable routing spaces. NOTE: For other longing and configurations, consult the Legranif Elitronics sales department



SpaceSaver Duplex Fiber Optic Patch Cords for Premium & High Performance Systems



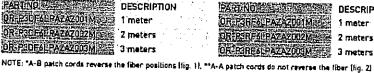
OptiMo Laser Optimized (50/125) PC/OFNP (A-B+)

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|--------------------------|--|---------------------------|----------|
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| OR PODE | 5. 7.474 | 700761 | 3.4 |
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| ORPOR | LIE A PART | KODSM | |
| Standard Intel Attendit | 211223 | TOTAL STREET | 100.00 |
| | | | |

DESCRIPTION



OptiMo Laser Optimized (50/125) PC/OFNP (A-A++)



OR-PIREGLEAZ

U

SpaceSaver Duplex Fiber Optic Patch Cords for Standard Performance Systems



OptiMo Laser Optimized (50/125) PC/OFNP (A-B*)

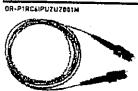
| | NO | | | |
|------|--------|-------|-------|--|
| OB-P | DEAT | AZAZO | OLM S | |
| ORER | OF6LP | ΔΖΔΖΠ | 12M | |
| | IDFÁLR | | | |
| MARK | PROUT. | | -5MG | |

DESCRIPTION 4 meter 2 meters

3 meters

OptiMo Laser Optimized (50/125) PC/DFNP (A-A*) PART NO.

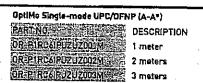
| | mit of pt.14L (NeW.) |
|--------|----------------------|
| | DESCRIPTION |
| AZ001M | 1 meter |
| AZ002M | 2 meters |
| AZD83M | 3 meters |



OptiNo Single-mode UPC/OFNP (A-B*)

| PAR) | NO. | | | | |
|------|------|------|------|-------|--|
| | iDCé | | | | |
| | | | | | |
| | 1DC4 | | | | |
| | 1006 | IRUZ | UZ00 | 9MP≥≎ | |

| 100 | DESCRIPTION | |
|-----|-------------|--|
| i. | 1 meter | |
| | 2 meters | |
| 7 | 3 meters | |





OptiMo (42.5/125) PC/DEMP (A. P.10.0

| house to to 11 to 1 to 1 th MA IV-R. | |
|--------------------------------------|-------------|
| ART NO. OF COMMENTS | DESCRIPTION |
| R-PIDA6BPAZAZBO1M | .1 meter 🕟 |
| REPIDAGEPAZAZ002M | 2 meters |
| R-PIDA6BPAZAZ003M | 3 meters |



DR-PIRAGBPAZAZOOSM

For additional product availability visit www.legrand.us/ortronics or contact sales at 800-934-5432

U

PATCH CORDS

NOTE Funtex support autopers include conversity durieung char fungasembled to the hard

Duplex Fiber Optic Patch Cords for Premium & High Performance Systems

| | OptiMo* LOMF (50/125) PC/OFNR, 2mm Zip Cord | |
|--------------------|--|-----|
| OR-P30F2LRGZGZG01M | DUPLEX CC-PC-TO-CC-PC | U |
| | OR: P3DF2LRGZGZOOTM 1 meter | |
| | OR RODEZERGZGZOOZM 2 meters | |
| | UR RIDE/L REGEDONM 3 meters | |
| OR-P3DFZLRFZFZ001M | DUPLEX SO POTOSCIPO | 2 |
| | OR-P3DFZLRFZFZ001M 1 meter | |
| | OR PIDFILREZEZDOZM 2 meters | |
| | OR:R3DF2LRFZFZ003M3 meters | |
| DR-P3DFZLRFZ02061M | DIVIDEEX SC-PC-TIC-UG-RR | U |
| | DR-P3DF2LRFZGZOMM 1 meter | |
| | DR: P30F2ERFZGZ602M 2 meters | . • |
| | OR_P3DF2LRFZG2003M2 3 meters | |

PATCH CORDS

NUTE Dupley appeared pumpers include removable dupleating constitution on the hand

Duplex Fiber Optic Patch Cords for Standard Performance Systems

| | | OptiMo* LOMF (50/125) PC/OFNR, 2mm Zip Cord | | OptiMo Single-made UPC/OFNR, 2mm Zip Card | | |
|--------------------|--------------------|--|----------|--|----------|---|
| OR-PIOFZLRGZBZODIM | OR-PIDCZIRSZSZ001M | DUPLEX* | LENGTH | DUPLEX COLUMN CO | LENGTH | E |
| | | OR-PIDEZLRGZGZ001M | 1 meter | OR-PIDCZIRSZSZODIM: | 1 meter | |
| | | OR-RIDF2LBGZGZ002M | 2 meters | OR:P1DC2)RSZSZ002M3 (4) | 2 meters | į |
| | | OR-RIDF2LRGZGZ003M | 3 meters | OR-RIDCZIRSZSZOOSM | 3 meters | i |
| OR-PIDEZLREZEZOOIM | OR-PIOCEIRREREDOIM | DURLEX \$ 15 (5) SC-PC TO SC-PC | LENGTH | DURCEX OF THE STATE OF THE SECOND SEC | LENGTH | Ę |
| | | OR-PADESLREZEZOOIM | 1 meter | OR-PIDCŽIRRZPŽOOTM | 1 meter | |
| 420 | | OR-PIUF2LRFZFZ002M | 2 meters | OR-PIDCZIRRZRZ002M | 2 meters | |
| | | OR-PIDEZLREZEZDOOM: | 3 meters | OR-PADEZIRHZRZODSM. | 3 meters | i |
| DR-P1DFZLRFZ6Z801M | OR-PIDCZIRRZSZ091M | DURCEX 8. TO LO PER 1995 | LÉNGTH | DUPLEXA TO LO UPO | LENGTH | |
| | | OR-FIDEZ REZGZDOIM: 2 | 1 meter | ORI PTOCZIRRZSZ001M | 1 meter | |
| | | OR PIDEZLREZGZ002M | 2 meters | OR-PICCE RRZSZ002MS | 2 meters | |
| | | OR-PIDEZLREZGZODIM | 3 meters | OR-PIDC2IRRZSZ003MT | 3 meters | |

Duplex Fiber Optic Patch Cords for Standard Performance Systems

| | OptiMo Multimode (62.5/125) PC/OFNR, 2mm Zip Card |
|--------------------|---|
| OR-PIDAZ9RGZ9Z901M | DUPLEX LENGTH |
| | QR_PIDAZBRCZGZ001M |
| | GHPIDA2BRGZGZ003M7723 3 meters |
| OR-P1DA2BRF2F2601M | DUPLESS. SCRETOSCHOOLS SEE LENGTH |
| | OR PIDAZBREZEZ001M5 1 meter |
| | OR:PIDAZBRIZFZ002M 2 meters DR:PIDAZBRIZFZ003M 3 meters |
| OR-PIDAZBRFZBZ001M | BUPLEX SERETULUSES: LENGTH |
| | OR PIDAZBREZGZ00 M TA 1 meter |
| | DR:RIDAZBRIZGZ002M 2 meters OR:RIDAZBRIZGZ002M 3 meters |

PATCH CORDS

Premium & High Performance Systems

NOTE: All piglal products include a 1-meter breakout section consisting of 900 µm buffered fiber with terminated ends. E.C. 50 and 51 cable assemblies have connectors with columns ferrules. For other lengths and configurations, consult the Legiand | Octronics sales department

| Single Connector Pigtails | OptiMo Laser Optimized (50/125)PC/OFNR |
|--|--|
| UR-P3PF9FRFZZZ661M | PREMIUM PERFORMANCE! |
| | PIETONNECTOR LENOTH |
| יל בי | DR-P3PF9EREZZZ001M 1 meter |
| | OR ESPESFREZZZ002NT |
| OR-P3PF#FRBZZZB61M | Premium pérsormange : Ex |
| process to the second s | FIBERCONNECTOR |
| W Ly | ORREPFFRAZZON M 1 meter |
| | OR-P3PEPERGZZZOO2N 2 meters |
| / | のまた。 表表 下の外では 気息が みんしょう (注意) *** 110 (101.3) |
| Six Connector Pigtails | OptiMo Laser Optimized (50/125)PC/OFNR |
| OR-P3SF4ZRFZZZG01M | PARHIUM RENEORMANCES REPORTED TO |
| | VEIBER CONNECTOR WAY |
| 11) | PISTAIL SCIPE, 50 LOME ST. |
| | OR-F35F6ZRFZZZÖD1M 1 mater OR-F35F6ZRFZZZD02M-(12) 2 meters |
| | 10月:PSSFAZRFZZZ002M 2 meters |
| OR-P3SF42R02222001M | PREMIUN PERFORMANCE - STEET - STEET |
| | STREET ONNECTOR. |
| ولا الله | OB_PSEAZROZZZOOIM |
| | OR-POSFAZRGZZZO02M 2 meters |
| | Section and the control of the contr |
| Twelve Connector Pigtails | OptiMo Laser Optimized [50/125]PC/OFNR |
| OR-P3TF&ZRFZ2ZDOIM | |
| | PREMIUM PERFORMANCE |
| | TO FIRE CONNECTOR LENGTH |
| | OR-P3TF4ZRFZZZ001M I meter |
| | OR-POTE-ZREZZODZM 2 maters |
| DR-P3TF4ZR8ZZZ901M | PREMIUM PERFORMANCE |
| | PERBER CONNECTOR |
| _ | PIGTALLEPPE, 5012M== LENGTH OR-2317A2R0222001M== 1 mater |
| | OR-POIFATROZZZOOM 2 meters |
| | SANGEST LAND AND AND A LONG TO A LIBERTY |

PATCH CORDS

Standard Performance Systems

NOTE. All pigrail products include a 1 mater breakout section consisting of 900 µm buffered liber with terminated ands, EC, SC and ST cable assemblies have connectors with ceramic terrules. For other lengths and configurations, consult the Legiand I Ortronics sales department.

| Single Connector Pigtails | OptiMo® Multimode (62.5/125) PC/OFNR | OptiMo Laser Optimized [50/125)PC/OFNR | OptiMo Single-mode UPC/OFNR | |
|---|---|--|--------------------------------|---------------------------------|
| OR-PIPFFFRZZZOSIM OR-PIPCFFRZZZOSIM | CONNECTOR PIGTAIL SCIENCE 1 FIBER OR FIPAYRIFZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ | TCONNECTOR S. FIGURAL & SC. PC. T. 1 FIBER OR PIPETRIFZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ | OR-PIECPERAZZZOOIM | 1 FIBER 1 meter 2 meters |
| OR-PIPEFRGZZZOOIM OR-PIPCFFRSZZZDOIM | GONNEGTOR PIGTALL TCTRES AF 1 FIBER GR-P:JPA9FRGZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ | ECDNNECTOR PIGTA LA CEPG POR 1 FIBER OR PIPE PROZZZODIM 1 meter OR PIPE PROZZZODIM 2 meters | OR-BIRCYLRSZZZOOIM | f FIBER 1 meter 2 meters |
| Six Connector Pigtails | OptiMa Multimode (62.5/125) PC/OFNR | OptiMo Laser Optimized (50/125)PC/OFNR | OptiMo Single-mode UPC/OFNR | |
| DR-P15F42RFZZZZOOIM OR-P15C4ZRRZZZZZOOIM | CONNECTOR OF A FIBER OF FISANZREZZZOUM 1 meter OR FISANZREZZZOUM 2 meters | MGONNEGION RIGIAIC SCIECE NA 6 FIBER OR DISEATRETZZOOM 1 meter OR PISEATRETZZOOM 2 meters | OR:P15042RPZZZ001M | 6 FIBER 1 meter 2 meters |
| | 6 CONNECTOR BISTALL 19 FC 6 FIBER OR F 15 AV 7 RG 7 T 900 M 2 meter OR F 15 AV 7 RG 7 T 900 M 2 meters | SCONNECTOR BIGFALE-103-PDS 6 FIBER ORIPISEZERSZZZIÓDE 1 meter ORIPISEZERSZZZIÓDE 2 meters | CR# (SC#Z RS72700) P/I | 6 FIBER 1 meter 2 meters |
| Twelve Connector Pigtails | OptiMo Multimode (62.5/125) PC/OFNR | OptiMo Laser Optimized (50/125)PC/OFNR | OptiMo Single-mode UPC/OFNR | |
| (D) (D) | OR-PITALZREZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ | OR PITEAZREZZZODIM: 1 meter | OR RUTCAZRREZZOOTM: 1 | 12 FIBER I mater 2 meters |
| | BIGTAIL CIRC 12 FIBER OR R1 (AVERCY 700 M) 1 meter | RIGTALL UC BO RAL 12 FIBER GR ² E/ITE/2RGZZZ00/M: 1 meter | CREPTICAZRSZZZONIA: 4 | 2 FIBER meter |

PATCH CORDS

Berk-Tek's revolutionary MDP (Micro Data Center Plenum) micro-diameter loose tube cable

- High-density 12, 24, 48 and 72-fiber cable, terminated with MTP* connectors
- Reduced cable cross section minimizes congestion in fiber pathways
- Small cable outer dimensions facilitate air flow in high density installations
- Factory-terminated/tested backbone cables guarantee performance in the field *MTP is a registered trademark of US Conec

Berk-Tek Pre-Terminated MTP to MTP Multimode Backbone Cables (Premium Performance)





12-Fiber, multimode, 50/125 LOMF, max mated pair loss: 0.35 dB, bandwidth @ 850/1300; 2000/500 MHz-Km, pulling eye* installed [standard]

12-Fiber, multimode, 50/125 LOMF, max mated pair loss: 0.35 dB. bandwidth in \$50/1300: 2000/500 MHz-Km pulling eye" installed (standard)

 Pulling eye installed on product on outside lead of spool xxxFT indicates length in feet, "xxxM1 indicates length in maters

DESCRIPTION

Berk-Tek Pre-Terminated MTP to MTP Multimode Backbone Cables (High Performance)





12-Fiber, multimode, 50/125 LOMF, max mated pair toss: 0.50 dB, bandwidth @ 850/1386; 2000/500 MHz-Km, pulling eye* installed (standard) 12-Fiber, multimode, 50/125 LOMF, max mated pair less: 0.50 dB, bandwidth @ 960/1380: 2000/500 MHz-Km, pulling eye* installed (standard) 24-Fiber, multimode, 50/125 LOMF, max mated pair loss; 0.50.dB, bandwidth #8 850/1300: 2000/500 MHz-Km, pulling eye* installed (standard) 24-Fiber, multimode, 50/125 LOMF, max meted pair Lease 0.50 dB, bandwidth in 850/1300: 2000/500 MHz-Km, pulling eye* installed istandard 48-Piber, multimode, 50/125 LOMF, max maked pain loss; 0.50 dB, bandwidth in 850/1300; 2000/500 MHz-Km, pulling eye! installed istandard 48-Fiber, multimode, 50/125 LOMF, max mated pair loss: 0.50 dB, bandwidth R 850/1300; 2000/500 MHz-Kin, pulling eye" installed (standard) 72-Fiber, multimode, 50/125 LOMF, max mated pair loss: 0.50 dB, bandwidth in 850/1306: 2000/500 MHz-Km, pulling eye* Installed (standard) 72-Fiber, multimoda, 50/125 LOMF, max maked pair toss, 0.50 dB, band-

width @ 959/1300: 2000/500 MHz-Km, pulling eye* installed (standard)

Berk-Tek Pre-Terminated MTP to MTP Multimode Backbone Cables (Standard Performance)





DESCRIPTION

12-Fiber, multimode, 50/125 LOMF, max mated pair loss: 0.75 dB, bandwith 8 850/1300 2000/500 MHz-Km, pulling eye" installed istandard 12-Fiber, multimede, 50/125 LOMF, max mated pair loss: 0.75 dB, bandwidth is 850/1300; 2000/500 MHz-Km, pulling eye" installed (standard) 24-Fiber, multimode, 50/125 LOMF, max mated pair loss: 0.75 dB, bandwidth @ 850/1300: 2000/500 MHz-Km, pulling eye* installed (standard) 24-Fiber, multimode, 50/125 LOMF, max mated pair toss: 0.75 dB, bandwidth @ 850/1300: 2000/500 MHz-Km, pulling eye? installed [standard] 48-Fiber, multimode, 50/125 LOMF, max mated pair loss; 0.75 dB, bandwidth @ \$50/1300; 2000/500 MHz-Km, pulling eye* installed (standard) 48-Fiber; multimode, 50/125 LOMF, max mated pair loss: 0.75 dB, bandwidth is 850/1300; 2000/500 MHz-Km, pulling eye" installed istandard 72-Fiber, multimede, 50/125 LOMF, max mated pair loss: 0.75 dB, bandwidth @ 850/1300: 2000/500 MHz-Km, pulling eye* installed (standard) 72-Fiber, multimede, 50/125 LOMF, max mated pair loss: 0.75 dB, bandwidth & \$50/1300; 2000/500 MHz-Km, pulling eye* installed (standard)

Pulling eye installed on product on outside lead of spool "xxxF" indicates length in feet, "xxxM" indicates length in meters

Pulling eye installed on product on putside lead of spool

^{*}xxxF" indicates length in feet, "xxxM" indicates length in meters

PATCH CORDS

Berk-Tek Pre-Terminated MTP to MTP Single-mode Backbone Cables (Standard Performance)





DESCRIPTION

12-Fiber, single-mode, max mated pair loss: 0.75 dB, pulling eye* installed (standard)

12-Fiber, single-mode, max mated pair loss: 0.75 dB, pulling eye? installed (standard)

24-Fiber, single-mode, max mated pair loss: 0.75 dB, pulling eye* installed (standard)

24-Fiber, single-mode, max mated pair loss: 0.75 dB, pulling eye* installed (standard)

48-Fiber, single-mode, max mated pair loss: 0.75 dB, pulling eye* installed (standard)

48-Fiber, single-mode, max mated pair tosa: 0.75 dB, putting eye* installed (standard)

72-Fiber, single-mode, max mated pair toss: 0.75 dB, putting eye* Installed (standard)

72-Eiper, shylle-mode, max mated pair loss: 0.75 dB, pulling eys* installed (standard)



Harness

Ortronics harmesses are used to break out the MPO-fitted trunk cable into LC duptex connectors to plug directly into the active device. Each harmess has a 12-fiber MTP*/MPO pinned (male) connector on one end and 6 duptex LC furcation tubes on the other. Each leg of the LC end can be either identical in length or each leg can be staggered 30mm [1.18] longer than the tube before it; another way to minimize and manage excess cable stack.

*MTP is a registered trademark of US Conec.



DESCRIPTION

Harness assembly, 12 liber, MPO IFI/LC Duplex, A-B, 50 LOMF, 2m

Harness assembly, 12 fiber, MPO (FI/LC Duplex, A-B, 50 LOMF, staggered, 3m

Harness assembly, 12 fiber, MPQ (FI/LC Duplex, A-B, 50 LOME, staggered, 4m.

Harness assembly, 12 fiber, MPO (FI/LC Duplex, A-A, 50 LOMF, 2m

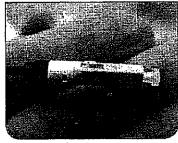
Harness assembly, 12 fiber, MPO (FI/LC Duplex, A-A, 50 LOMF, staggered, 3m

Harness assembly, 12 fiber, MPO (FI/LC Duplex, A-A, 50 LOMF, staggered, 4m

^{*} Pulting eye instalted on product on outside tead of appol *xxxF" Indicates length in feet, "xxxM" indicates length in maters

FIELD-INSTALLABLE CONNECTORS

The most critical point in any optical interconnect is the physical contact Interface between mated connector pairs. When polishing fiber connectors, a small lens is created at the tip of the connector and the shape of this lens critically impacts transmission of light, Utilizing advanced laser interferometry equipment to monitor the manufactur? ing process, Ortronics® Lumen™ and OptiMo® pre-potIshed field termination connectors exhibit highly controlled end-face geometry resulting in reliable, low insertion loss, minimal return loss connections, in addition, this approach eliminates imprecise epoxy application, time consuming curing, and highly variable hand polishing from field installation practices. The net effect is reduced installation expense, higher yield field terminations, and better performance.



| Features | Benefits |
|--|--|
| No epoxy, polishing, or fusion splicing required | Fast, easy assembly in the field |
| Reusable termination capability (up to 5 times) | Saves time and money, reduces scrap |
| ■ Built-in VFL window | Immediate feedback on successful termination |
| * No special tools required | ■ Common fiber tools, readily available |
| ■ Fast installation | ■ Cost savings |
| Factory prepared and verified end face | = Reliability and superior performance |
| 62.5, 50 micron LOMF and single-mode versions available* | ■ Flexibility for many installation applications |
| Unlimited shalf life | Ready when needed, reduced waste |

^{*} All 50/125 field-installable connectors are suitable for use with 10 Gigabit (1808ASE-SR applications and 100FC) systems

FIELD-INSTALLABLE CONNECTORS

Change your perception of fiber field installations with new Lumen fiber optic connectors from Legrand | Ortronics, Lumen fiber connectors harness the power of light for unprecedented ease and fiber termination reliability. These reusable prepolished connectors can be installed in two minutes or less, on a prepared optical liber, without the need for special installation tools or equipment.

NEW

DR-205HATTEA-SOT



DR-205KAT98A.GE



DR-205HATTGA-42



Lumen LC Connectors

Lumen LC fiber connectors are a critical component for any fiber optic transmission link and provide superior performance and ease of installation in the field. The connectors work well with both 900 micron buffered distribution type fibers and 250 micron coated fibers installed with a 900 micron breakout kit*.

PARENO OR-205KAT90A-30TI OR-205KAT96A-99

DESCRIPTION

LC reusable connector, field-installable, 50/125 LOMF, aqua housing, black 900 micron boot, individually packaged LC reusable connector, field-installable, single-mode, blue housing, black 900 micron boot, individually packaged LC reusable connector, field-installable,

62.5/125, beige housing, black 900 micron boot, individually packaged

Use Ortranics 12-fiber breakout kits (part number OR-61500858) or 6-fiber breakout kit (part number OR-61500868)

OR-205HAT9FA-50T



OR-205KATTFA-ST



OR-205KATPFA-42



Lumen SC Connectors



DESCRIPTION

SC reusable connector, field-installable, 50/125 LOMF, aqua housing, black 900 micron boot, individually packaged

50 reusable connector, field-installable, single-mode, blue housing, black 900 micron boot, individually packaged

SC reusable connector, field-installable, 62.5/125, beige housing, black 900 micron boot, individually packaged

FIELD-INSTALLABLE CONNECTORS

NEW

Legrand I Ortronics offers all the tools necessary for field termination of the Lumen!* reusable pre-polished connectors. A complete rausable connector kit option includes all the fiber preparation tools necessary to terminate the connector, including a battery operated VFL light source, cleave tool and handy support handle to hold the VFL and connector during field assembly. The complete field tool kits come in a rugged tool pouch with pockets to hold each tool and spaces to add additional tools if needed.



The tool pouch can be attached to the technician's belt or hung over the shoulder with a strap. The support handle is a superb addition to the kit to assist in applying a slight fiber control tension during the termination process. It is ergonomically designed to fit comfortably in the hand and provides a VFL eye safety shield. The kit also includes an integral stylus to assist in actuating the fiber locking mechanism.

Lumen Kits

| Parts included in | n Lumen optical fiber termination tool kits |
|---|--|
| H SE STATE OF THE SE STATE OF | TOOL BAG SAVETY BLASSES PRECISION CLEAVER STANDARD OLEAVER TECH SCISSORS SUPPORT HANDLE HOLDING TOOL) UC, SCYCCE, SCYST ADAPTERS FOR SUPPORT HANDLE HOLDING TOOL) LC, SCYCCE, SCYST ADAPTERS FOR SUPPORT HANDLE HOLDING TOOL) LC, SCYCCE, SCYST ADAPTERS FOR SUPPORT HANDLE HOLDING TOOL) LC, SCYCCE, SCYST ADAPTERS FOR SUPPORT HANDLE HOLDING TOOL) LC, SCYCCE, SCYST ADAPTERS FOR SUPPORT HANDLE HOLDING TOOL) LC TO LC, JUMPER FOR VIT. FIBER WASTE BOTTLE MARKER ACCIG-CL MPES (10 PACKS) TWEEZERS (10 PACKS) TWEEZERS (10 PACKS) THES CARD, AND THES CARD, |
| OR-85400015 | Precision Kity (1) x (x) |
| OR:85400019-355 | Standard Kit |
| OR-86400014 | Upgrade Kit x x x x x x x x x x x x x x x x x x x |

Precision Fiber Cleave Tool

00 40200210



PARTINO DESCRIPTION
OR-60300/210 Precision cleaver

FIELD-INSTALLABLE CONNECTORS



Support Handle

OR-40390204



DESCRIPTION Support Handle*

VFL Kit

OR-40300207



DESCRIPTION

U

Singlemode VFL Jumpers

CR-62300208



DESCRIPTION LC to LC Jumper SC to LC Jumper

U

Microscope

OR-60300128



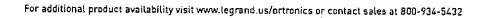
DESCRIPTION

Cleave inspection microscope [100x]

Instructions

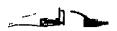


DESCRIPTION Instructions



FIELD-INSTALLABLE CONNECTORS

GR-205KAST0A-501



LC Field-installable, 50/125, 900 Micron Buffer

OptiMo 10Gb/s field-installable LC connector for use with 50 micron multimode fiber is suitable for 10 Gigabit applications. The OptiMo 10Gb/s technology incorporates a factory-bonded fiber stub, ceramic ferrule, and pracise factory polish. Designed for installation on 900 micron buffered fiber. Optional kits available for installation on 2.0 mm diameter jacketed cables (see OR-20500267).



DESCRIPTION

Individually packaged

NOTE: All 90/125 field-installable connectors are surfable for use with 10 Gigabit (1008ASE-SR applications and 100FC) systems

GR-205KAS9GA.09



LC Field-Installable, Single-mode, 900 Micron Buffer

OptiMo field-installable LC connector for use with single-mode fiber incorporates a factory-bonded fiber stub, ceramic ferrule, and precise factory pollsh. Designed for installation on 900 micron buffered fiber. Optional kits available for installation on 2.0 mm diameter jacketed cables (see OR-20500267).

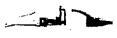


DESCRIPTION

Individually packaged

£

OR-205KASTGA-62



LC Field-Installable, 62.5/125, 900 Micron Buffer

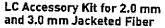
OptiMo field-instaltable LC connector for use with 62.5 micron multimode fiber incorporates a factory-bonded fiber stub, ceramic ferrule, and precise factory polish. Designed for installation on 900 micron buffered fiber. Optional kits available for installation on 2.0 mm diameter jacketed cables (see OR-20500267).



DESCRIPTION

Individually packaged

OR-20500247





This is the Ortronics accessory kit for use when installing LC connectors on 2.0 mm or 3.0 mm jacketed cables. Kit includes two strain relief connector boots using flexible engineering rubber, 3.0 mm and 2.0 mm crimp rings.



DESCRIPTION

LC accessory kit for 2.0 mm and 3.0 mm jacketed fiber

186

For additional product availability visit www.legrand.us/ortronics or contact sales at 800-934-5432

FIELD-INSTALLABLE CONNECTORS

OR-ZOSKASSFA.SOT

SC Field-Installable, 50/125, 900 Micron Buffer

OptiMo 10 Gb/s field-installable SC connector for use with 50 mlcron multimode fiber is suitable for 10 Gigabit applications. The OptiMo 10Gb/s technology Incorporates a factory-bonded liber stub, ceramic ferrule, and precise factory polish. Designed for installation on 900 micron buffered fiber. Optional kits available for installation on 2.4 to 3.0 mm diameter jacketed cables (see OR-20500237),

PART NO DESCRIPTION

Individually packaged

NOTE: All 50/125 field-installable connectors are suitable for use with 10 Gigable (100BASE-SR Applications and 10GFC) systems.

OR-IGSKASTFA-OF

SC Field-Installable, Singlemode, 900 Micron Buffer

OptiMo field-installable SC connector for use with single-mode liber. The OptiMo technology incorporates a factory-bonded fiber stub, ceremic ferrule, and precise factory polish. Designed for installation on 900 micron buffered fiber. Optional kits are evailable for installation on 2,4 to 3.0 mm diameter jacketed cables (see OR-205002371.



DESCRIPTION

Individually packaged

OR-205KA59FA-42

SC Field-Installable. 62.5/125, 900 Micron Buffer

OptiMo field-installable SC connector for use with 62.5 micron multimode fiber incorporates a factory-bonded fiber stub. ceramic ferrule, and precise factory polish. Dasigned for installation on 900 micron buffered fiber. Optional kits available for installation on 2,4 to 3.0 mm diameter jacketed cables (see OR-20500237).



DESCRIPTION

individually packaged

OR-20500237

SC Accessory Kit for 2.4 and 3.0 mm Jacketed Fiber

Ortronics* accessory kit for use in installing 5C connectors on 2.4 to 3.0 mm jacketed cables. Kit includes strain relief connector boot using flexible engineering rubber, a cord adapter, a 2.4 mm crimp ring, and a 3.0 mm crimp ring



DESCRIPTION

Optional strain relief boot accessory kit for use in installing SC connectors on 2.4 and 3.0 mm jacketed cables

FIELD-INSTALLABLE CONNECTORS

GR-ZOEKASFEA-BOT

ST Field-Installable, 50/125, 900 Micron Buffer

OptiMo 100b/s field-installable ST connector for use with 50 micron multimode fiber is suitable for 10 Gigabit applications. The OptiMo 100b/s technology incorporates a factory-bonded fiber stub, ceramic ferrule, and precision factory potish. Designed for installation on 900 micron buffered fiber. Optional kits are available for installation on 2.4 to 3.0 mm diameter jacketed cables (see 0R-20500236).



DESCRIPTION

Individually packaged

NOTE: ALI SD/125 field-installable connectors are suitable for use with 10 Gigabit (100BASE-SR applications and 100FC) systems.

OR-205KAS9EA-42

ST Field-Installable, 62.5, 900 Micron Buffer

OptiMo field-installable ST connector for use with 62.5 micron multimode fiber incorporates a factory-bonded fiber stub, ceramic ferrule, and precise factory polish. Designed for installation on 900 micron buffered fiber. Optional kits are available for installation on 2.4 to 3.0 mm diameter jacketed cables (see OR-20580236).



DESCRIPTION

individually packaged

OR-205KA57EA-07

ST Field-Installable, Singlemode, 900 Micron Buffer

OptiMo field-installable ST connector for use with single-mode fiber incorporates a factory-bonded fiber stub, ceramic ferrule, and precise factory potish. Designed for installation on 900 micron buffered fiber. Optional kits are available for installation on 2.4 to 3.0 mm diameter jacketed cables [see OR-20500236].



DESCRIPTION

Individually packaged

OR-20500236

ST Accessory Kit for 2.4 and 3.0 mm Jacketed Fiber

Ortronics* accessory kit for use in Installing ST connectors on 2.4 to 3.0 mm jacketed cables. Kit includes strain relief connector boot using flexible engineering rubber, a 2.4 mm crimp ring, and a 3.0 mm crimp ring.



DESCRIPTION

Optional strain ratiof boot accessory kit for use in installing ST connectors on 2.4 and 3.0 mm jacketed cables. Package of 25

188

For additional product availability visit www.legrand.us/ortronics or contact sales at 800-934-5432

FIELD-INSTALLABLE CONNECTORS

Tools & Kits

With any tool kits, components get lost or worn out over time. To accommodate replenishment needs, Ortronics® offers a complete range of high quality accessory components supporting the OptiMo® field termination system. From cleaning supplies to cleavers, microscopes, instruction sheets, fiber strip and crimp tools, Ortronics has the components to meet a range of needs and keep installations moving forward.

OR-854800000-1



Complete OptiMo Termination Kit

Ortronics complete OptiMo Termination Kit for installing ST, SC and LC type connectors. Kit includes universal installation tool, fiber cleaver, crimping tool, instruction manual, fiber preparation guide, microscope, alcohol wipes, felt tipped marker, scissors, tweezers, waste container and one fiber/cable stripper.

PART NO.

DESCRIPTION

Complete OptiMo termination kit

OR-41560858



OptiMo Breakout Kits

To be used with loose tube cables.

PARTNO OR (1500358 7 2. OR (1500868 7)

DESCRIPTION

Breakout kit, 12 fiber

Breakout kit, á fiber



OR-60300203

OR-61500848



OptiMo Universal Connector installation Tool PARTING CONTROL OF THE PARTING CONTROL OF THE

DESCRIPTION

Includes one clamp and tool compatible with OptiMo LC, SC and ST connectors

DR-10300204





DESCRIPTION

One table top stand for installation tool

FIELD-INSTALLABLE CONNECTORS

Tools & Kits

Precision Fiber CleaveTool

OR-40300210



PARTING DESCRIPTION
OR-60300210 Precision cleaver

CRIPTION

Fiber Cleave Tool

OR-60300123



PARE NO: ______. DR-40300120 DESCRIPTION

Cleaver with preset stop

Microscope

GR-60300121



PARTING STATES

DESCRIPTION
Cleave inspection microscope (100x)

OptiMo Crimp Tool with Die

OR-60306125



PARTEINO P

DESCRIPTION

Crimp tool with die

FIELD-INSTALLABLE CONNECTORS

Tools & Kits

Strip Tools

DR-40300124

08-60300127

OR-40300205

DESCRIPTION

Miller* style

Nick-free style

Universal jacket/buffer

Alcohol Wipes

DESCRIPTION

80 alcohol wipes and felt tipped marker

OptiMo Installation instruction Manual

DESCRIPTION

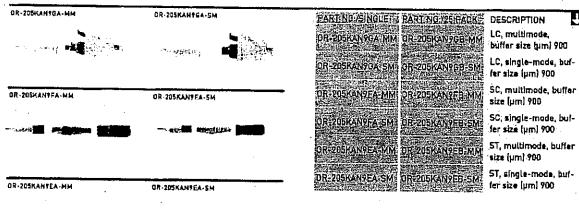
Compatible with LC, SC and ST

FIELD-INSTALLABLE CONNECTORS

OptiMo quick-cure, anaerobic epoxy field-installable connectors speed installation time. Strip the fiber, inject the adhesive into the connector, insert and scribe the fiber, then polish the connector end face to perfection for a high performance termination. Users and installers will benefit from high productivity and low connector costs—which translates directly into savings.

| | Features | Benefits |
|---|-------------------------------|---|
| | ■ Simple design | Allows for lower unit costs. Advanced engineering helps us ensure long life and saves replacement costs. |
| | ■ No capital equipment | With OptiMo field polish connectors, there is no need for curing ovens. UV light sources, or expensive polishing machines, it is possible to terminate anywhere without worrying about power sources or charging batteries. |
| ĺ | ■ Fast application | Terminate fibers in about two minutes following the easy installation instructions, saving on installation time. |
| İ | ■ Precision ceramic ferrule | ■ Provides durability, temperature stability and scratch resistance. |
| | ■ Single-mode or multimode | Simplistic offering reduces confusion by offering one style connector that covers all multimode applications to include 62.5µm, standard 50µm, or laser optimized 50µm for 10 Gigabit transmission, and single-mode. |
| | ■ Pre-radius LC | One-piece pre-radius LC connector for minimal polishing and consistent end-face geometry resulting in more consistent optical performance. |
| | ■ Reliable performance | Secure the installation of fiber using an adhesive and primer for a secure worry-free termination. |
| | ■ Minimal tools | A compact and economical tool kit contains all the common tools necessary to complete the termination. |

Anaerobic Adhesive Connectors



FIELD-INSTALLABLE CONNECTORS

Anaerobic Field installable Connector Termination Kit



PART NO.

DESCRIPTION

Contains all tools necessary for complete OptiMo LC, ST and SC enserobic terminations: contractor bag, micro strip tool, scribe tool, jacket strip tool, scissors, cut length templates, polishing pad, polishing pucks, microscope

NOTE: Consumables: polishing paper, adhesive and primer are sold separately

Anaerobic Field Installable Connector Multimode Polishing Kit



DESCRIPTION

Consumables necessary for complete OptiMo LC, ST and SC terminations: dry wipes, dispensing tips, syringe, type G polishing paper, type F polishing paper (terminates approx. 100 connectors)

Anaerobic Field installable Connector Single-Mode Polishing Kit

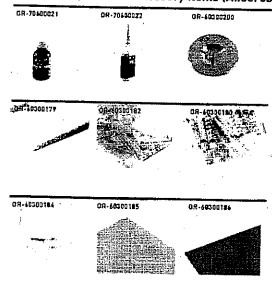




DESCRIPTION

Consumables necessary for complete OptiMo LC, ST and SC terminations: dry wipes, dispensing tips, syrings, type B pollahing-paper, type F pollahing paper, type M pollahing paper (terminates approx. 100 connectors)

Individual Tools and Accessory Items (Anaerobic)



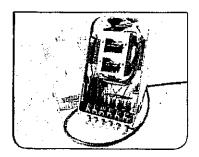
| BARTINO IT IS | DESCRIPTION |
|-----------------|--|
| OR-70600021 | Adhesive |
| 09-70600022 | Primer |
| OR-603002pg | LC stainless polishing puck also sultable for Keyed LC connector |
| 07-60300179 | Package of 250 dry wipes |
| OR-60300182 | Dispensing tips, package of 125 |
| OR-60300183 | Syringe, package of 10 |
| IOR-60300184.*\ | Type M polishing paper, package of 10 sheets, SM only |
| OR-60900185 | Type F polishing paper, package of 10 sheets |
| OR-60300186 3 | Type G polishing paper, package of 20 sheets |

Dlegrand' Ortronics

WORKSTATION SYSTEMS

Fib-or-Cop II provides greater multimedia capacity, addressing the increasing need for fiber in horizontal cabling systems. This larger version of the Fib-or-Cop has the ability to mount six TracJack® or three Series it® modules in the face, with a choice of fiber (LC, SC, ST or MT-RJ) and/or copper (TracJack) exiting from the bottom. This design allows the cover to be removed without disrupting the connections in the faceplate. The wide variety of connectors located in the bottom positions can be further protected by an optional snap-on shroud,

In addition, the Ortronics® line of workstation solutions offers many alternative designs to accommodate multimedia needs for in-wall and surface mount installations.



Fib-or-Cop II





DESCRIPTION

Base and cover for three Series !! modules, 5" x 8" x 1.19"

Base and cover for six TracJack modules,

Fib-or-Cop II Protective Bottom Shroud





PART NO. C.

DESCRIPTION

DESCRIPTION

Package of five protective bottom shrouds

Fib-or-Cop II Bottom Adapter Plates DR-42100046

08-42160050 0R-42100052



DR-42100054

OR-42100048



DR-621000A4





3-57 duplex (6 fibers) multimode, beige adapters, phosphor-bronze alignment sleeves 3-ST duplex (6 fibers) single-mode, blue adapters, ceramic alignment steeves 6-SC simplex (6 fibers) multimode, beige adapters, phosphor-bronze allgnment sleeves 6-SC simplex (6 fibers) single-mode, blue adapters, cerámic alignment steeves 3-SC duplex (6 fibers) multimode, belge adapters, phosphor-bronze alignment steeves 3-SC duplex (6 fibers) single-mode, blue adapters, ceramic alignment sleeves 6-LC duplex (12 fibers) multimode, beige adapters, phosphor-bronze alignment sleeves 6-LC duplex (12 fibers) single-mode, blue adapters, ceramic alignment stoeves. 6-MT-RJ (12 fibers) feed-through multimode, beige adapters 6-MT-RJ (12 fibers) single-mode, blue adapters 4-LC quad, 50 LOMF, agua adapters

WORKSTATION SYSTEMS

Modules & Faceplates

TracJack® Faceplates

OR-40305549







OR-40300145

0R-40300554



OR-40100355





DR#40900545

OR-40300554

OR-40300555

DESCRIPTION

Single gang plastic, holds one Traclack, 2.75", x 4.5", fog white

Single gang plastic, holds two TracJacks, 2.75" x 4.5", fog white

Single gang plastic, holds three TracJacks, 2.75" x 4.5", fog white

Single gang plastic, holds four Traclacks, 2.75° x 4.5°, fog white

Single gang plastic, holds six TracJacks, 2.75° x 4.6°, fog white

Dual gang plastic, holds eight TracJacks, 4.5" x 4.5", fog white

Dual gang plastic, holds six TracJacks, 4.5" x 4.5", fog white

NOTE: Not compatible with the following faceplates: OR-40300554, OR-40300670

NOTE: Standard color for plastic TracJack faceptates is log white. For electrical ivory add -13, for white add -88 and for Wiremold* ivory add -99 to end of part number. For other colors, contact sales.

TracJack Surface Mount Boxes

DR-4047/4

OR-404TJ6







DESCRIPTION

Holds four TracJacks, Jacks exit from both sides, 4.0° x 2.42° x 1,16°

Holds six Traclacks, 6.98" x 4.33" x 1.16" Includes internal storage ring for fiber and two Traclack blanks. Can mount directly to single or double gang recessed wall boxes.

Surface Mount Outlet Boxes for TracJack and Series II

DR-48300185

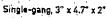












Double-gang, 4.9" x 4.7" x 2"

NOTE: Compatible with Wiremold 2700, 2800 and 2900 Raceway Series.



Optional Accessories

PART NO P DESCRIPTION

DR-70900020 Adhesive-back magnet for single-gang

Adhesive-back magnet for double-gang

Double-sided adhesive (order two for a double-gang)

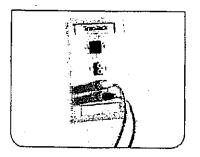
NOTE: Compatible with Wiremold® 2700, 2800 and 2900 Raceway Series

WORKSTATION SYSTEMS

Modules & Faceplates

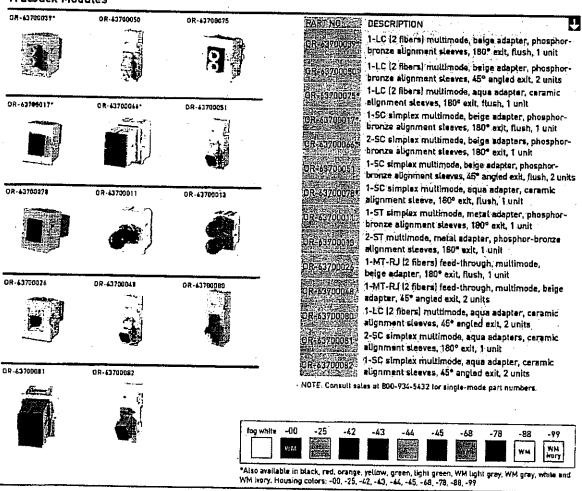
TracJack® Modules

TracJack is a versatile single-module solution—the perfect combination of high quality, enhanced performance, labor savings, ease of use, and flexibility in design. TracJack front removable snap-in modules make moves, adds, and changes easy. TracJack products are compatible with Fib-or-Cop II and the complete line of TracJack faceplates and surface mount boxes. TracJack modules are available in LC, SC, ST, FC, and MT-RJ styles in order to suit any installation requirement.



| Features | Benefits |
|---|---|
| ■ Snap-in modute | ■ Simple, secure installation |
| ■ Modular design | Flexibility in structured cabling system design |
| ■ Front removable | Facilitates quick moves, adds, and changes |
| ■ No special tools required | Reduced installation expense |
| ■ Fully compatible with all TracJack faceplates | Provides wide range of design possibilities |

TracJack Modules



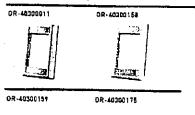
196

For additional product availability visit www.legrand.us/ortronics or contact sales at 800-934-5432

WORKSTATION SYSTEMS

Modules & Faceplates

Series II* Faceplates





DESCRIPTION

Standard profile, .75" deep, fog white, 2.75" x 4.5"

Low profile, .5" deep, fog white, 2.75" x 4.5"

Standard profile, .75" deep, fog white, 4.5" x 4.5"

High profile, 1.65" deep, fog white, 4.5" x 4.5"



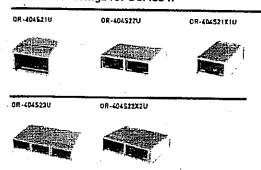
Series II Extension Plate





DESCRIPTION
Single gang extension plate, for white, 2.75" x 4.5" x .9"

Surface Housings for Series II





DESCRIPTION

Holds one 1-unit Series II module, fog white,
2.27" x 2.59" x 1.20"

Holds two 1-unit Series II modules, fog white,
includes one Series II blank, 3.60" x 4.80" x 1.16"

Holds two 1-unit Series II modules, fog white,
includes one Series II blank, 4.00" x 2.42" x 1.16"

Holds three 1-unit Series II modules, internal
fiber storage ring, fog white, 4.33" x 4.98" x 1.16"

Holds four 1-unit Series II modules, fog white,
includes two Series II blanks, 4.00" x 4.71" x 1.16"

NOTE: Does not accept 45° modules.

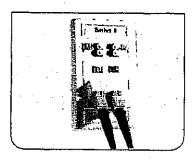
Diegrand' Ortronics

WORKSTATION SYSTEMS

Modules & Faceplates

Series IIº Modules

Ortronics® most popular line—Series II modules are snap-in and front removable, making moves, adds and changes easy. All Series II products are compatible with Fib-or-Cop II and the complete line of Series II faceplates and surface mount interface boxes. Series II modules are available with LC, SC, ST, FC and MT-RJ adapter choices in a wide variety of designs to suit any installation.



| Features | Benefits | |
|---|--|--|
| ■ Snap-in module | * Simple, secure installation | |
| ■ Modular design | Flexibility in structured cabling system design | |
| Front removable | ■ Facilitates quick moves, adds, and changes | |
| No special tools required | ■ Reduced installation expense | |
| ■ Flush mounted | Provides a greater depth to facilitate patch cord management | |

Series IIº Modules

| OR-60900329 | 74E006014-BO | OR-40900141 |
|-------------|---------------|-------------|
| | | • |
| OR-40700328 | DR-49700340 | OR-40100343 |
| | | |
| 2R-40700184 | . OR-40180324 | OR-60900182 |
| all l | | |
| R-40900094 | DR-40900325 | OR-40700330 |
| | | |
| R-40700342 | OR-60780339 | OR-40700326 |
| | | |

| PARTINO. | DESCRIPTION |
|----------------------------|--|
| OR 60900029 | 2-LC (4 fibers) multimode, belge adapters, phosphor- bronze alignment sleaves, 180° exit, itush, 1 unit |
| OR-60900344 OR-60900341 | 1-LC duplex, multimode, beige adapter, phosphor- bronze alignment sleeves, 45° angled exit, 2 units 2-LC (4 fibers) phosphor-bronze alignment sleeves, |
| | multimode, belge adapters, 45° angled exit, 2 units |
| OR-60900328 | 2-SC simplex, multimode, beige adapters, phosphor- bronze alignment sleeves, 180° exit, flush, 1 unit |
| OR>60900340 | 2-50 simplex, multimode, beige adapters, phosphor- bronze alignment slaeves, 45° angled exit, 2 units |
| OR-40700343 | 1-SC duplex, multimoda, belge adapter, phosphor bronza alignment sleeva, 180º exit, 1 unit |
| OR-60900184 | 1-SC duplex, multimode, beige adapter, phosphor- bronze alignment sleeves, innie, 60° angled exit, 1.5 units |
| PR 60900324 | 2-ST simplex, multimode adapters, phosphor-bronze alignment sleeves, 180° exit, 1 unit |
| JR-60900182 | 2-ST simplex, multimode adapters, phosphor-bronze alignment eleeves, innie, 60° angled exit, 1.5-units |
|)R-80900088 | 4-ST simplex, multimode adapters, phosphor-bronze alignment sleaves, Innie, 55° angled exit, 3 units |
| R-60900325 | 1 MT-RJ (2 libers) feed-through, multimode, beige adapter, 180° exit, flush, 1 unit |
| R-60900390 | 2-MT-RJ (4 fibers) feed-through, multimode, beige adapters, 180° exit, flush, 1 unit |
|)R-60900342 | 1-MT-RJ (2 fibers) feed-through, multimode, beige adapter, 45° angled exit, 2 units |
| R-60900339+ | 2-MT-RJ (4 fibers) feed-through, multimode, beige adapters, 45° angled exit, 2 units |
| R-609003261 | 2-FC simplex, multimode adapters, phosphor-brenze alignment sleeves, 180° exit, 1 unit |

WORKSTATION SYSTEMS

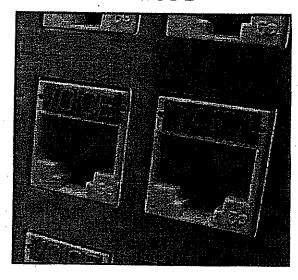
Modules & Faceplates

Series II® Modules

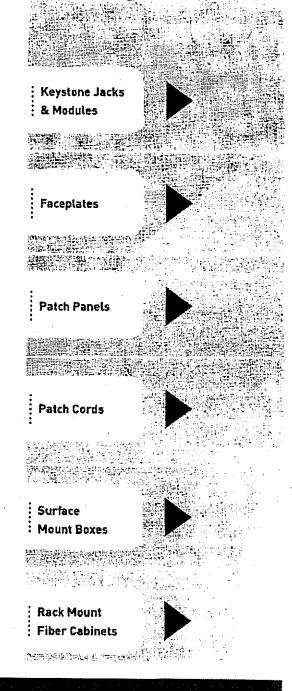
OR-40700345 DR-60700366 DR-60900361 PARENO. DESCRIPTION 2-LC (4 fibers) multimode, aqua adapters, ceramic allgament sleeves, 180° exit, flush, 1 unit 1-LC duplex, multimode, equa adapter, ceramic alignment sleaves, 45° angled exit, 2 units 2-LC (4 fibers) ceramic alignment steeves, multimode, aqua adapters, 45° angled exit, 2 units OR-40100348 OR-40190341 OR-60900370 2-SC simplex, militimode, aqua adapters, ceremic alignment steeves, 180° axit, flush, 1 unit 2-SC simplex, multimode, aqua adapters, ceramic alignment sleeves, 45° angled exit, 2 units 1-SC duplex, multimode, aqua adapter, ceramic 60900370 elignment sleeve, 180° exit, 1 unit 1-50 duplex, multimode, aqua adapter, ceramic alignment steeves, Innie, 60° angled exit, 1.5 units OR-40900371

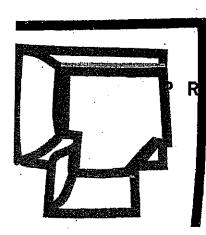
HIGH PERFORMANCE STRUCTURED CABLING PRODUCTS & SOLUTIONS

TechChoice® Solutions



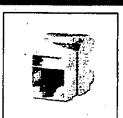
TechChoice® structured cabling solutions combine the reliability and ease of installation you'd expect from Legrand I Ortronics with performance and rugged construction to provide a cost-effective option for communications technicians. Category 5e and 6 products are third party component tested to meet Category 5e and 6 component specifications for TIA/EIA-568-B.2 and ISO11801-2002.



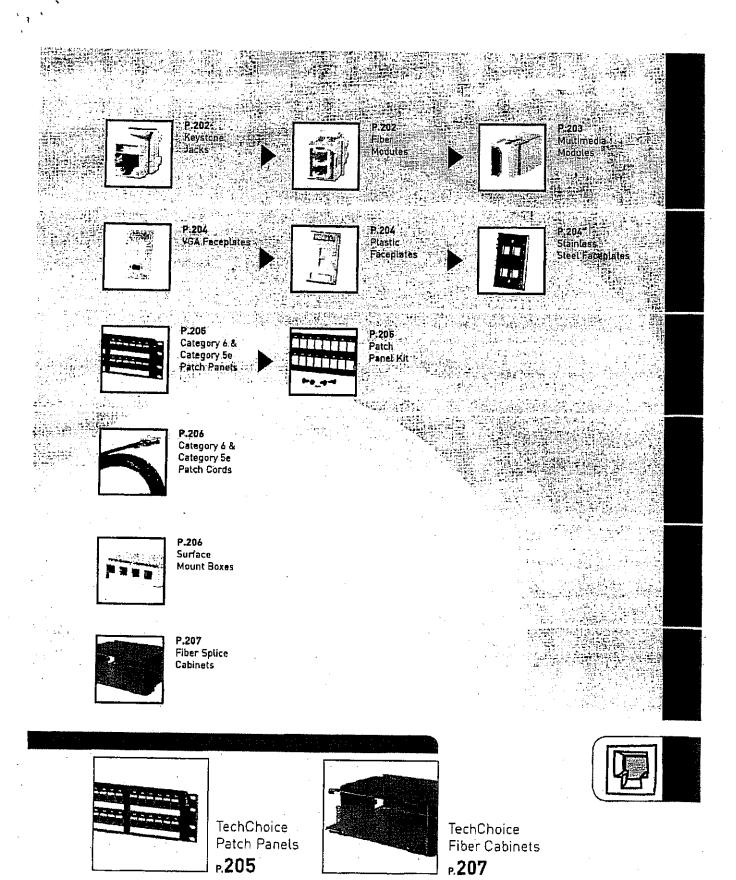


FEATURED

ODUCTS



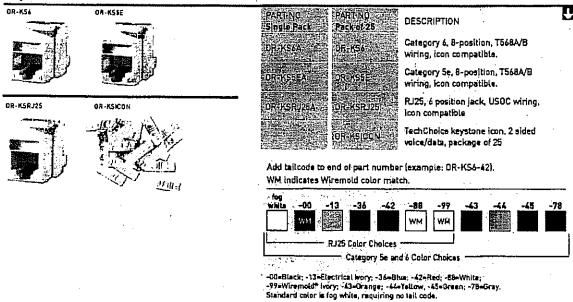
TechChoice Jacks P.202



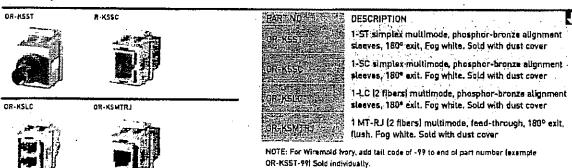
KEYSTONE JACKS & MODULES

TechChoice keystone jacks and modules feature an easy-to-follow universal wiring label and support standard termination using a 110-impact tool. The keystone footprint allows for the greatest flexibility in installation scheduling because its rear insertion into the faceplate allows the technician to complete the termination before, during and after the construction process.

Keystone Jacks

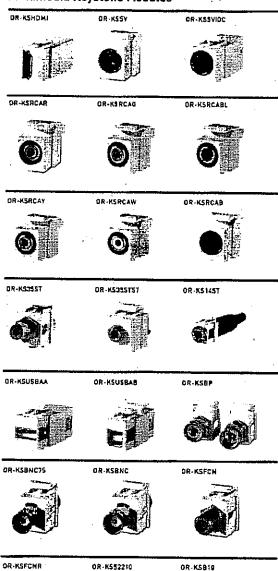


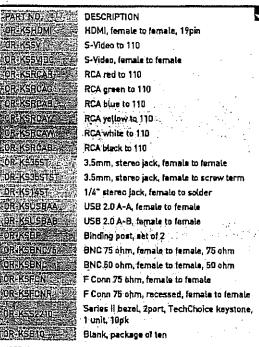
Fiber Keystone Modules



KEYSTONE JACKS & MODULES

Multimedia Keystone Modules





NOTE: Standard color is fog white. For other colors, contact sales.

OR-KS819

☐ legrand Ortronics

FACEPLATES



VGA Faceplates

VGA Faceplates are available in high impact 94V-0 rated thermoplastic. The single gang version includes one integrated VGA connector. The double gang version includes two VGA connectors.

PART NO. OR-KSEP4V110

OR-KSFPBV110

QR-KSFP4

OR-KSFP6

Single-gang, holds four keystones, VGA to 110

Single-gang, holds four keystones, OR-KSFP4VFT VGA with crimp plas

Double-gang, holds eight keystones,

two VGA to 110

Double-gang, holds eight keystones,

OR-KSFP8VFTtwo VGA with crimp plns

NOTE: Standard color is fog white. Add -13 for electrical ivory.

OR-KSFP2



Faceplates

TechChoice* faceplates are available in high impact 94V-0 rated thermoplastic and stainless steel, with a variety of port capacities to match your workstation applications. All faceplates allow for a flush jack finish.

Plastic Faceplates with Label Fields

PARTINO X ME DESCRIPTION OR KSFPI OR KSFP2 3 5

Single gang, holds one keystone Single gang, holds two keystones OR KSFP3 (5. Single gang, holds three keystones Single gang, holds four keystones Single gang, holds six keystones

DR-KSFP8 Dual gang, holds eight keystones Dual gang, holds 12 keystones

NOTE: Standard color is fog white. Add ~13 for electrical ivory, -88 for white or -79 for Wiremold wory.



OR-KSFPR2

Stainless Steel Faceplates with Label Fields

PART NO 12 14 OR KSSS1 DESCRIPTION Single gang, holds one keystone OR:KS552 Single gang, holds two keystones OR-KESSO Single gang, holds three kaystones DR-KSSS4 Single gang, holds four keystones OR-KSSS6 Single gang, holds six keystones Dual gang, holds eight keystones



Plastic Faceplates without Label Fields

OR-K55512 Dual gang, holds 12 keystones

PART NO. DESCRIPTION Single gang will OR-KSFPR2 OR-KSFPR3

Single geng with one keystone opening Single gang with two keystone openings Single gang with three keystone openings TOR-KSFPR4 Single gang with four keystone openings OR-KSEPRAL Single gang with six keystone openings

NOTE: Standard color is log white, add -13 for electrical ivory, -88 for white, or -99 for Wiremold (vory

Plastic Rectangular BFCI & 106 Frames

PART NO. ___ DESCRIPTION OR-KSDS2 Stylistic rectangular frame with 2 keystone openings OR/ISDS3 Stylistic rectangular frame with 3 keystone openings OR*KSDS4 Stylistic rectangular frame with 4 keystone openings

OR-K510652 106 style frame with 2 keystone openings 20R:KS10654 106 style frame with 4 keystone openings

HOTE: Standard color is log white, add -13 for electrical ivory, -88 for white, or -99 for Wiremald Ivary

EART NO. DESCRIPTION

Series il bezel, 2 port TechChoice Keystone,

Tunit, 10 pack

NOTE: Standard color is log white, add -13 for electrical ivory, -88 for white, or -99 for Wiremold Ivary

OR-KS\$2210

204

For additional product availability visit www.ortronics.com or contact sales at 800-934-5432

FACEPLATES

Furniture Plates

08-40300430





DESCRIPTION

Holds four keystones, two-piece base and cover, adjustable to fit a range of common furniture openings (2.67*-2.75* x 1.34*-1.41*) for 0.065" thick material.

NOTE: Standard color is fog white. Add -00 for black.

PATCH PANELS

OR-SP&U48



DR-SPALU48



Patch Panels

24- and 48-port TechChoice® patch panels are available in the traditional multi-port panel format with 6-port modules for Cat 6 and Cat 5e. Patch panel kits are also available to support individual keystone jacks: Cat 6, Cat 5e and multimedia (sold separately).











OR-SPXSU24



DR-SPAKSU48



Category 6 with 6-port modules



PARTINO DESCRIPTION 24-port, T568A/B, height 1.75", 1 rack unit

48-port, T568A/B, height 3.5", 2 rack units

Category 6 angled with 4-port modules

| PARTING LA | DESCRIPTIO |
|------------|--------------|
| AD ODALIO | 24-port, ang |
| | 1 rack unit |
| no epilius | 46-port, ang |
| 200 | 2 rack units |

DESCRIPTION 24-port, angled, T568A/B, height 1.75", 1 rack unit 48-port, angled, T568A/B, height 3.5°,

Category Se with 6-port modules

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|-----|----|-----|--------------|
| | | 2.3 | 77.5 |
| DR. | SF | SEU | 24 |
| | Ħ | | |
| OR | SP | 5EU | 48 |

DESCRIPTION 24-port, T568A/B, height 1.75*, 1 rack unit 48-port, T568A/B, height 3.5°, 2 rack units

Category Se angled with 6-port modules

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| #OR#SF | ASEU48 | |
| No. 200 p. 45 | Commence Land | |

DESCRIPTION A 24-port, angled, T568A/B, height 1.75", 1 rack unit

48-port, angled, T568A/B, height 3.5", 2 rack units

Patch Panel Kit Jaccepts KS series keystone Jacks & modules]

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| #OR-SPAKSU24 |
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| CH-SPAKEU48 |
| THE PROPERTY OF THE PARTY OF TH |

DESCRIPTION 24-port, height 1.75°, 1 rack unit

48-port, height 3.5", 2 rack units

24-port, angled, height 1.75", 1 rack unit 48-port, angled, height 1.75°, 2 rack units

Diegrand Ortronics

PATCH CORDS

OR-SPCSESS-05



Modular Patch Cords

TechChoice® patch cords offer a slim design for high density applications and come factory terminated with a snagless boot. Each cable is pre-tested for component performance.

OR-SPC 607-00



Category 6

| PARTINO - US | PARTINO |
|----------------------------|--|
| | 基础的编辑中部设计图图图图记录 |
| Single Pack- | # Q Packs |
| STATE OF STATE OF | |
| CR-SPCA603-XX | OR SPC603-XX |
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| | THE STATE OF STATE OF |
| OR-SPCA605-XX | OR-SPC605-XX |
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| OR-SPCA607-XX | OR-SPC607-XX |
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| THE LEGISLAND OF CO. | |
| DR-SPCA610-XX | OR-SPC610-XX |
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| OR SPCA615-XX | OR45PD615-XX |
| | |
| THE RESERVE | |
| OR-SPEA625-XXY | DR-SPC625-XX |
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| MOTE, Aunitable in the | a tellowana zelozo. "Yi |

DESCRIPTION

Four pair stranded patch cord PVC, langth 3ft Four pair stranded patch cord PVC, length 5ft Four pair stranded patch cord PVC, length 7ft Four pair stranded patch cord, PVC langth 10ft Four pair stranded patch cord, PVC length 15ft Four pair stranded patch cord, PVC length 15ft Four pair stranded patch cord, PVC length 15ft Four pair stranded patch cord, PVC length 25lt

NOTE: Available in the following colors: -XX = -00 Black; -02 Red; -04 Yellow; -05 Green; -06 Blue; -08 Grey; -09 White.
Add tailcode to end of part number (example: OR-SPC603-02).

Category 5

| Category 5s | |
|-----------------|-----------------|
| PART NOTE: | PARTANDS 2 |
| Single Pack 2 | 10 Packs |
| ORESPOASEOS XX | OR-SPESEDS XX |
| | |
| OR-SPCASE05-XX | ORHSPC5E05-XX |
| OR SPEASEDT XX | OF THE STATE OF |
| THE PROPERTY. | OR-SPCSEOT-XX |
| ORISPEASEID-XX | ICR-SPCSE10-XX |
| | |
| OR-SPCATE 15-XX | QR-SPUSE15-XX |
| | |
| OR-SPCASE25-XX | OR-SPG5E25-XX |
| | |

DESCRIPTION

Four pair stranded patch cord PVC, length 3ft Four pair stranded patch cord PVC, length 5ft Four pair stranded patch cord PVC, length 7ft Four pair stranded patch cord PVC, length 10ft Four pair stranded patch cord PVC, length 15ft Four pair stranded patch cord PVC, length 25ft

NOTE: Available in the following colors: -XX = -00 Black; -02 Red; -04 Yellow; -05 Green; -04 Blue; -08 Gray; -09 White.

Add fadcode to and of part number (example: OR-SPC403-02).

SURFACE MOUNT BOXES

DR-KSSMB2



DR-KSSMB4



OR-KSSMR&

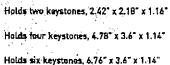


Surface Mount Boxes

TechChoice high impact surface mount boxes accommodate two-, four- or six- port keystone requirements. They are compatible with the Wiramold® Eclipse range of solutions, or can easily be surface installed with supplied screws or double-sided tape. Designation strips and clear covers included.

OR KSSMB2 OR KSSMB2 OR KSSMB4

DESCRIPTION



NOTE: Available in fog white. Product dimensions are listed by length, width and height.

RACK MOUNT FIBER CABINETS

Ortronics® TechChoice rack mount fiber enclosures are designed to offer an economical solution for fiber patching required in LAN and campus wiring environments. These enclosures are used in conjunction with the Ortronics OFP series adapter panels or Momentum® 2 series cassettes to provide a complete fiber cross connect patching solution.

GR-ECOTU-C



DR-EC02U-C



DR-ECOSU-C



0A-EC04U-Ç



NEW

Fiber Patch Cabinets

All enciosures are supplied with internal bend limiting spoots, cable management bend limiters, a fixed front cassette/adapter panel mounting bracket and split removable top covers. The enclosures will accept two, six, ten and twelve splice trays per rack unit, respectively. The hardware package also includes rack mount screws and a data label.*



DESCRIPTION

1 rack unit, black, holds three adapter panels, two splice trays and fixed cassette/adapter panel bracket

2 rack units, black, holds six adapter panels, four splice trays and fixed cassette/adapter panel bracket

3 rack units, black, holds nine adapter panels, six aplice trays and fixed cassetts/adapter panel bracket

4 rack units, black, holds 12 adapter panels, eight splice trays and fixed cassette/edapter panel bracket

OR-ECOZU-S



NEW

Fiber Splice Cabinets



DESCRIPTION

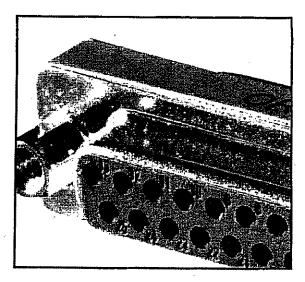
TechChoice 2U Rack Mount Fiber Splice Enclosure, Holds 12 splice trays, Black TechChoice 4H Book Mayor The College Tech

TechChoice 4U Rack Mount Fiber Splice Enclosure, Holds 32 splice trays, Black

OR-ECO4U-5



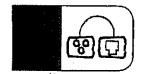
Adapters



Legrand | Ortronics offers a range of adapters which provide connections for terminal devices and peripherals.



Data Adapters



FEATURED PRODUCTS

ADAPTERS

NOTE: All Ortronics product dimensions are listed by width, height and depth unless specified otherwise.

OR-DB25HDFF

Gender Changer

The Ortronics gender changers allow cabling connections to be made between Identical connector terminations where gender matching or correction is required.



DESCRIPTION

Male-male

Femule-female

DR-21101DABMKIT



Data Adapters

Ortronics data adapters are interfaces between data terminal equipment (DTE) and data communications equipment (DCE). They are used for high density applications where width between ports is critical and dimensions are within the basic DB9, DB15 and DB25 anvalops.

7-Pin Date Adapter



DESCRIPTION

8 wires x 8 positions, male, 8 pins 8 wires x 8 positions, female, 8 pins

15-Pin Data Adapter



DESCRIPTION

8 wires x 8 positions; male, 8 plns 8 wires x 8 positions, female, 8 pins

25-Pin Data Adapter



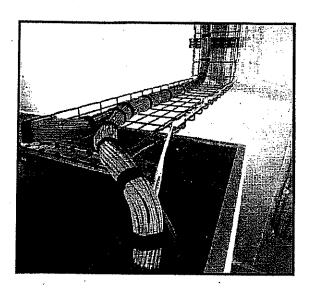
DESCRIPTION

8 wires x 8 positions, male, 8 pins

B.wires x 8 positions, female, 8 pins

HIGH PERFORMANCE STRUCTURED CABLING PRODUCTS & SOLUTIONS

Cablofil Solutions



Over 40 years ago, Cablofil invented the concept of wire mesh cable tray and introduced it to the European Market. Now a member of the Legrand family of products, Legrand/Cablofil's continued success is the result of on-going innovation with labor saving products and ideas that are changing the way cables are supported in every aspect of the global electrical market.



Cable Tray

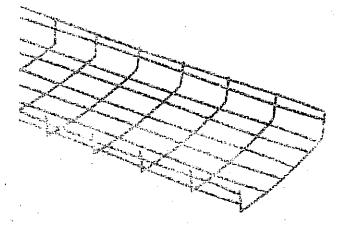
Under Floor System

Splice and Connector Hardware

Wall Mounting Hardware

Ceiling
Mounting





□ legrand | Cablofil

www.legrand.us/cablofil Phone 800-658-4641 • 618-566-3244 Fax 618-566-3250 B319 State Route 4 Mascoutah, IL USA 62258

EXHIBIT I



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE TRADEMARK TRIAL AND APPEAL BOARD

| In the Matter of Registration Nos.: For the Marks: Date of Issue: | 3,998,542 and 3,998,543 LAYER ZERO and LAYER 0 July 19, 2011 | ER ZERO and LAYER 0 | |
|---|--|---------------------|--|
| LAYERZERO POWER SYSTEMS, | INC. | | |
| Petitioner, |) Cancellation No.: 92054573 | , | |
| ν. | , | | |
| ORTRONICS, INC., | | | |
| Registrant. |) | | |

REGISTRANT'S SUPPLEMENTAL AND AMENDED RESPONSES TO PETITIONER'S FIRST SET OF REQUESTS FOR ADMISSION (Nos. 8 and 9)

Pursuant to Rules 26 and 36 of the Federal Rules of Civil Procedure and 37 C.F.R. 2.120, Registrant Ortronics, Inc. ("Registrant") submits the following supplemental and amended responses ("Supplemental Responses") to the First Set of Requests for Admission (collectively, the "Requests") proffered by Petitioner LayerZero Power Systems, Inc. ("Petitioner") on March 20, 2012. Registrant continues its investigation into the subject matter underlying this action, and it submits these responses and objections based only on its present knowledge and belief. Registrant reserves its right to amend and/or supplement its responses and objections to the Requests consistent with further investigation and discovery.

GENERAL OBJECTIONS

Registrant reasserts and maintains the General Objections asserted in its initial Responses and Objections to Petitioner's First Set of Requests for Admission, dated May 3, 2012 ("Initial Responses and Objections"). The General Objections are incorporated into each and every Supplemental Response below as though fully set-forth therein.



MEI 13740270v.2

REQUESTS FOR ADMISSION

REQUEST FOR ADMISSION NO. 8

Admit that Registrant is currently using in commerce the mark covered by U.S. Trademark Registration No. 3,045,151 for all the goods claimed in the registration.

SUPPLEMENTAL RESPONSE:

Registrant reasserts and maintains the objections previously asserted in its Initial Responses and Objections.

Subject to, and without waiving the foregoing objections, Registrant supplements its response as follows: Registrant admits that is currently using in commerce the mark covered by U.S. Trademark Registration No. 3,045,151 for the following goods identified in the Registration: equipment for voice and data communications systems, namely, cabinets, jacks, racks, panels, face plates, connectors, adapters, terminations, jumpers, wiring blocks, connecting blocks, baluns, media filters, and gender chargers, fiber optic and metallic cables; computer programs for designing wire management, cable layout and labeling systems for use in telecommunication systems; computer workstation products, namely, outlet boxes and face plates, modules; Receptacles and bezels; and power injectors to supply power over communication networks. Except as specifically admitted herein, Registrant denies.

REQUEST FOR ADMISSION NO. 9

Admit that Registrant is currently using in commerce the mark covered by U.S. Trademark Registration No. 3,746,520 for all the goods claimed in the registration.



RESPONSE:

Registrant reasserts and maintains the objections previously asserted in its Initial Responses and Objections.

Subject to, and without waiving the foregoing objections, Registrant supplements its response as follows: Registrant denies.

Dated: August 3, 2012

Respectfully submitted,

/s/ Mark D. Giarratana
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Attorneys for Registrant Ortronics, Inc.

CERTIFICATE OF SERVICE

The undersigned hereby certifies that a copy of the foregoing was served on Petitioner

LayerZero Power Systems, Inc. on the date indicated below via e-mail to:

Raymond Rundelli, Esq.
Juliet P. Castrovinci, Esq.
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rrundelli@calfee.com
jcastrovinci@calfee.com

Dated: August 3, 2012

/s/ Mark D. Giarratana Mark. D. Giarratana

EXHIBIT J

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE TRADEMARK TRIAL AND APPEAL BOARD

| In the Matter of Registration Nos.: For the Marks: Date of Issue: | 3,998,542 and 3,998,543 LAYER ZERO and LAYER 0 July 19, 2011 |
|---|--|
| LAYERZERO POWER SYSTEMS, | INC. |
| Petitioner, |) . Cancellation No.: 9205457 |
| v. | <u> </u> |
| ORTRONICS, INC., | <u>}</u> |
| Registrant: | ' |

REGISTRANT'S SUPPLEMENTAL AND AMENDED RESPONSES TO PETITIONER'S SECOND SET OF REQUESTS FOR ADMISSION (NOS. 10, 12, 13, 14, 15, 17, 24 and 25)

Pursuant to Rules 26 and 36 of the Federal Rules of Civil Procedure and 37 C.F.R. 2.120, Registrant Ortronics, Inc. ("Registrant") submits the following supplemental and amended responses ("Supplemental Responses") to the Second Set of Requests for Admission (collectively, the "Requests") proffered by Petitioner LayerZero Power Systems, Inc. ("Petitioner") on April 27, 2012. Registrant continues its investigation into the subject matter underlying this action, and it submits these responses and objections based only on its present knowledge and belief. Registrant reserves its right to amend and/or supplement its responses and objections to the Requests consistent with further investigation and discovery.

GENERAL OBJECTIONS

Registrant reasserts and maintains the General Objections asserted in its initial Responses and Objections to Petitioner's Second Set of Requests for Admission, dated June 5, 2012 ("Initial



Responses and Objections"). The General Objections are incorporated into each and every Supplemental Response below as though fully set-forth therein.

REQUESTS FOR ADMISSION

REQUEST FOR ADMISSION NO. 10:

Admit that Registrant is an affiliate of Legrand France.

SUPPLEMENTAL RESPONSE:

Registrant reasserts and maintains the objections previously asserted in its Initial Responses and Objections.

Subject to, and without waiving the foregoing objections, Registrant supplements its response as follows: Registrant admits.

REQUEST FOR ADMISSION NO. 12:

Admit that Legrand France is a provider of products and systems for electrical installations and information networks.

SUPPLEMENTAL RESPONSE:

Registrant reasserts and maintains the objections previously asserted in its Initial Responses and Objections.

Subject to, and without waiving the foregoing objections, and to the extent that Registrant understands the meaning of the vague and undefined terms, Registrant supplements its response as follows: Registrant admits that Legrand France is a provider of certain products and systems for electrical installations and information networks, specifically, molded case miniature circuit breakers, fuses, electrical cabinets, skirtings and trunkings, sockets, switches, dimmers, timers, doorbells, intercoms, fire alarms, burglar alarms and emergency lighting equipment. Except as expressly admitted, denied.





REQUEST FOR ADMISSION NO. 13:

Admit that Electrorack Products Company is a manufacturer of products with application in the datacenter/IT market.

SUPPLEMENTAL RESPONSE:

Registrant reasserts and maintains the objections previously asserted in its Initial Responses and Objections.

Subject to, and without waiving the forgoing objections, and to the extent that Registrant understands the meaning of the vague and undefined terms, Registrant supplements its response as follows: Registrant admits that Electrorack Products Company participates in five main market categories within the larger enclosure market, which includes the "datacenter/IT" market category. Except as expressly admitted, denied.

REQUEST FOR ADMISSION NO. 14:

Admit that Electrorack Products Company is a manufacturer of products with application in the industrial/electronic market.

SUPPLEMENTAL RESPONSE:

Registrant reasserts and maintains the objections previously asserted in its Initial Responses and Objections.

Subject to, and without waiving the forgoing objections, and to the extent that Registrant understands the meaning of the vague and undefined terms, Registrant supplements its response as follows: Registrant admits that Electrorack Products Company participates in five main market categories within the larger enclosure market, which includes the "industrial/electronic" market category. Except as expressly admitted, denied.





REQUEST FOR ADMISSION NO. 15:

Admit that Electrorack Products Company is a manufacturer of products with application in the custom/OEM market.

SUPPLEMENTAL RESPONSE:

Registrant reasserts and maintains the objections previously asserted in its Initial Responses and Objections.

Subject to, and without waiving the forgoing objections, and to the extent that Registrant understands the meaning of the vague and undefined terms, Registrant supplements its response as follows: Registrant admits that Electrorack Products Company participates in five main market categories within the larger enclosure market, which includes the "custom/OEM" market category. Except as expressly admitted, denied.



REQUEST FOR ADMISSION NO. 17:

Admit that Electrorack Products Company's products include racks, enclosures, power remote control and remote monitoring goods, power cords, power mounting, and power distribution units.

SUPPLEMENTAL RESPONSE:

Registrant reasserts and maintains the objections previously asserted in its Initial Responses and Objections.

Subject to, and without waiving the forgoing objections, and to the extent that Registrant understands the meaning of the vague and undefined terms, Registrant supplements its response as follows: Registrant admits that Electrorack Products Company designs and manufactures racks, cabinets, power cords, mounting brackets and rack-mounted power strips. Except as expressly admitted, denied.





REQUEST FOR ADMISSION NO. 24:

Admit that Registrant is representing in promotional materials directed to the data center market that "Layer Zero encompasses the entire physical infrastructure that supports your network."

SUPPLEMENTAL RESPONSE:

Registrant reasserts and maintains the objections previously asserted in its Initial Responses and Objections.

Subject to, and without waiving the forgoing objections, and to the extent that Registrant understands the meaning of the vague and undefined term "data center market," Registrant supplements its response as follows: Registrant admits.

REQUEST FOR ADMISSION NO. 25:

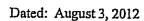
Admit that the physical infrastructure of a data center may include one or more of the following goods: electrical static transfer switches, electrical power distribution units, electrical integrated static transfer switch-power distribution unit systems, electrical remote power panels, and electrical remote distribution panels.

SUPPLEMENTAL RESPONSE:

Registrant reasserts and maintains the objections previously asserted in its Initial Responses and Objections.

Subject to, and without waiving the forgoing objections, and to the extent that Registrant understands the meaning of the vague and undefined term "physical infrastructure," Registrant supplements its response as follows: Registrant denies.





Respectfully submitted,

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Attorneys for Registrant Ortronics, Inc.



CERTIFICATE OF SERVICE

The undersigned hereby certifies that a copy of the foregoing was served on Petitioner

LayerZero Power Systems, Inc. on the date indicated below via e-mail to:

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Juliet P. Castrovinci, Esq.
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Dated: August 3, 2012

/s/ Mark D. Giarratana Mark. D. Giarratana